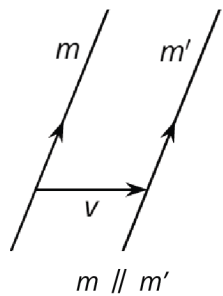
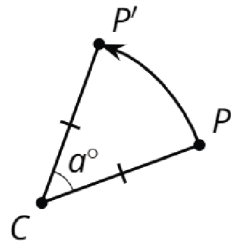
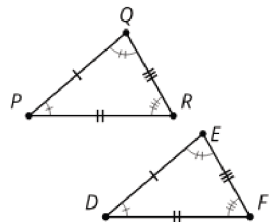
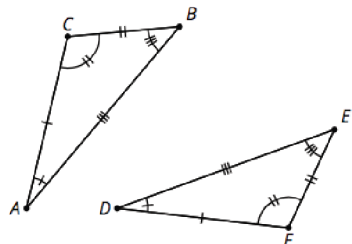
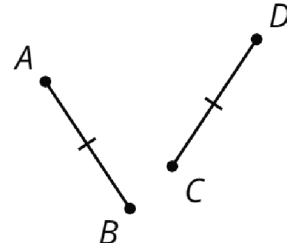
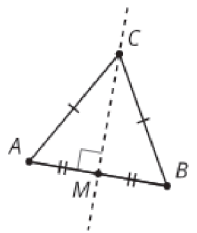
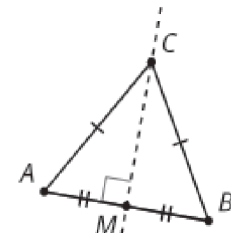
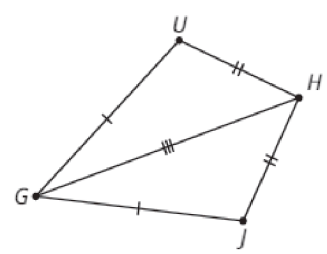
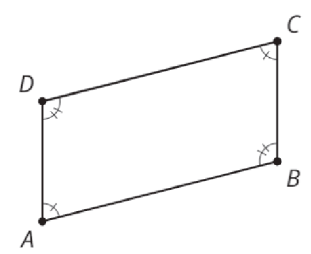


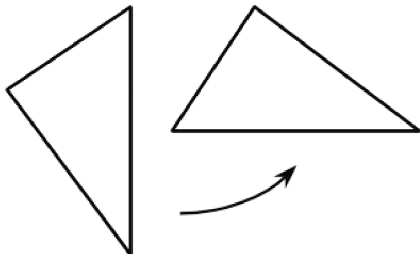
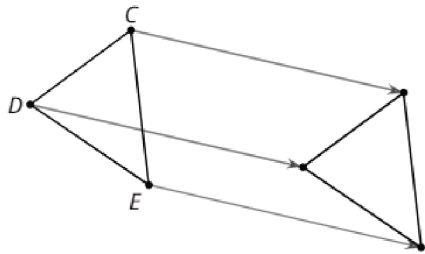
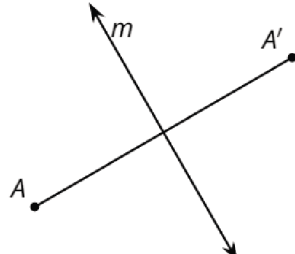
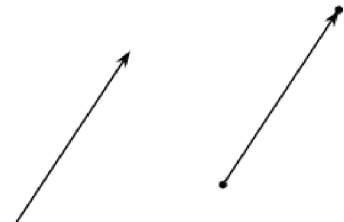
| lesson,<br>type                                         | statement                                                                                                                                                                                                                                                                                                                                             | diagram                                                  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| U1, L10<br>(students<br>write the<br>date)<br>assertion | <p>A <b>rigid transformation</b> is a translation, reflection, rotation, or any sequence of the three.</p> <p>Rigid transformations take lines to lines, angles to angles of the same measure, and segments to segments of the same length.</p>                                                                                                       |                                                          |
| U1, L10<br>definition                                   | <p>Two figures are <b>congruent</b> if there is a sequence of translations, rotations, and reflections that takes one figure exactly onto the other.</p> <p>The second figure is called the image of the rigid transformation.</p>                                                                                                                    | <p><math>\triangle EDC \cong \triangle E'D'C'</math></p> |
| U1, L11<br>definition                                   | <p><b>Reflection</b> is a rigid transformation that takes a point to another point that is the same distance from the given line, that is on the other side of the given line, and so that the segment from the original point to the image is perpendicular to the given line.</p> <p>"Reflect <u>(object)</u> across line <u>(name)</u>."</p>       | <p>Reflect A across line m.</p>                          |
| U1, L12<br>definition                                   | <p><b>Translation</b> is a rigid transformation that takes a point to another point so that the directed line segment from the original point to the image is parallel to the given line segment and has the same length and direction.</p> <p>"Translate <u>(object)</u> by the directed line segment <u>(name or from [point] to [point])</u>."</p> | <p>Translate A by the directed line segment v.</p>       |
| U1, L12<br>assertion                                    | <p><b>Parallel Postulate:</b> Given a line <math>m</math> and a point A that is not on <math>m</math>, there is exactly one line that goes through A that is parallel to <math>m</math>.</p>                                                                                                                                                          |                                                          |

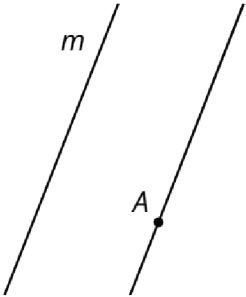
| lesson,<br>type       | statement                                                                                                                                                                                                                                                                                                                                                                                                         | diagram                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U1, L12<br>theorem    | Translations take lines to parallel lines or to themselves.                                                                                                                                                                                                                                                                                                                                                       |  <p><math>m \parallel m'</math></p>                                                                                                                                                                                                                                                                                                   |
| U1, L14<br>definition | <p><b>Rotation</b> is a rigid transformation that takes a point to another point on the circle through the original point with the given center. The two radii, the one from the center to the original point and the one from the center to the image, make the given angle.</p> <p>"Rotate <u>(object)</u> (clockwise or counterclockwise) by <u>(angle or angle measure)</u> using center <u>(point)</u>."</p> |  <p>Rotate <math>P</math> counterclockwise by <math>\alpha^\circ</math> using center <math>C</math>.</p>                                                                                                                                                                                                                              |
| U2, L1<br>theorem     | If two figures are congruent, then <b>corresponding</b> parts of those figures must be congruent                                                                                                                                                                                                                                                                                                                  |  <p><math>\triangle DEF \cong \triangle PQR</math> so <math>\overline{PQ} \cong \overline{DE}</math>,<br/> <math>\overline{PR} \cong \overline{DF}</math>, <math>\overline{QR} \cong \overline{EF}</math>, <math>\angle P \cong \angle D</math>, <math>\angle Q \cong \angle E</math>,<br/> <math>\angle R \cong \angle F</math></p> |
| U2, L3<br>theorem     | If all pairs of corresponding sides and all pairs of corresponding angles are congruent, then the triangles must be congruent.                                                                                                                                                                                                                                                                                    |  <p><math>\overline{AB} \cong \overline{DE}</math>, <math>\overline{BC} \cong \overline{EF}</math>, <math>\overline{AC} \cong \overline{DF}</math>, <math>\angle A \cong \angle D</math>,<br/> <math>\angle B \cong \angle E</math>, <math>\angle C \cong \angle F</math> so <math>\triangle ABC \cong \triangle DEF</math></p>     |
| U2, L5<br>theorem     | If two segments have the same length, then they are congruent.                                                                                                                                                                                                                                                                                                                                                    |  <p><math>AB = CD</math>, so <math>\overline{AB} \cong \overline{CD}</math></p>                                                                                                                                                                                                                                                     |

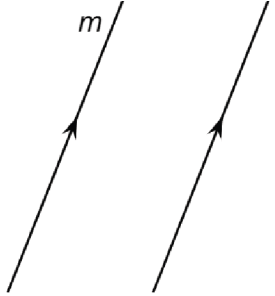
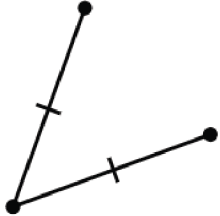
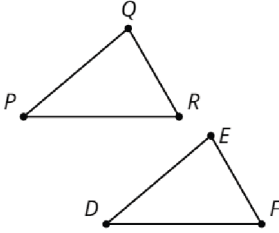
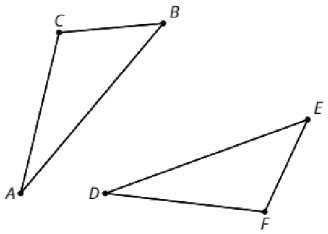
| lesson,<br>type      | statement                                                                                                                                                                                                                            | diagram                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U2, L6<br>theorem    | <b>Side-Angle-Side Triangle Congruence Theorem:</b> In two triangles, if two pairs of congruent corresponding sides and the pair of corresponding angles between the sides are congruent, then the two triangles are congruent.      | <p><math>\overline{AB} \cong \overline{GB}</math>, <math>\overline{BC} \cong \overline{BC}</math>, <math>\angle ABC \cong \angle GBC</math> so<br/> <math>\triangle ABC \cong \triangle GBC</math></p> |
| U2, L6<br>theorem    | <b>Isosceles Triangle Theorem:</b> In an isosceles triangle, the base angles are congruent.                                                                                                                                          | <p><math>\overline{AP} \cong \overline{PB}</math>, so <math>\angle A \cong \angle B</math></p>                                                                                                         |
| U2, L7<br>theorem    | <b>Angle-Side-Angle Triangle Congruence Theorem:</b> In two triangles, if two pairs of corresponding angles are congruent and the pair of corresponding sides between the angles is congruent, then the triangles must be congruent. | <p><math>\angle A \cong \angle C</math>, <math>\overline{AE} \cong \overline{EC}</math>, <math>\angle DEA \cong \angle BEC</math>,<br/> so <math>\triangle DEA \cong \triangle BEC</math></p>          |
| U2, L7<br>definition | A <b>parallelogram</b> is a quadrilateral with two pairs of opposite sides parallel.                                                                                                                                                 | <p><math>NM \parallel KL</math>, <math>NK \parallel ML</math>, so<br/> <math>MNKL</math> is a parallelogram</p>                                                                                        |
| U2, L7<br>theorem    | In a parallelogram, pairs of opposite sides are congruent.                                                                                                                                                                           | <p><math>MNKL</math> is a parallelogram, so<br/> <math>\overline{NM} \cong \overline{KL}</math>, <math>\overline{NK} \cong \overline{ML}</math></p>                                                    |

| lesson,<br>type   | statement                                                                                                                                                           | diagram                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U2, L8<br>theorem | If a point $C$ is the same distance from $A$ as it is from $B$ , then $C$ must be on the perpendicular bisector of $AB$ .                                           |  <p><math>\overline{AC} \cong \overline{BC}</math>, so <math>C</math> is on the line through midpoint <math>M</math> perpendicular to <math>\overline{AB}</math>.</p>                                      |
| U2, L8<br>theorem | If $C$ is a point on the perpendicular bisector of $AB$ , the distance from $C$ to $A$ is the same as the distance from $C$ to $B$ .                                |  <p><math>AB \perp CM</math>, <math>\overline{AM} \cong \overline{BM}</math>, so <math>\overline{AC} \cong \overline{BC}</math></p>                                                                        |
| U2, L9<br>theorem | <b>Side-Side-Side Triangle Congruence Theorem:</b> In two triangles, if all three pairs of corresponding sides are congruent, then the triangles must be congruent. |  <p><math>\overline{HU} \cong \overline{HJ}</math>, <math>\overline{UG} \cong \overline{JG}</math>, <math>\overline{HG} \cong \overline{HG}</math>, so <math>\triangle HUG \cong \triangle HJG</math></p> |
| U2, L9<br>theorem | In a parallelogram, opposite angles are congruent.                                                                                                                  |  <p><math>ABCD</math> is a parallelogram,<br/>so <math>\angle A \cong \angle C</math>, <math>\angle D \cong \angle B</math></p>                                                                          |

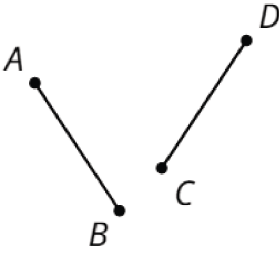
| lesson,<br>type      | statement                                                                                                                                                                                                                                     | diagram |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| U5, L2<br>definition | A <b>dilation</b> is a transformation in which each point on a figure moves along a line and changes its distance from a fixed point, called the “center of dilation.” All of the original distances are multiplied by the same scale factor. |         |
| U5, L4<br>definition | The <b>point-slope form</b> of the equation of a line is $y - k = m(x - h)$ where $(h, k)$ is a particular point on the line and $m$ is the slope of the line.                                                                                |         |
| U5, L5<br>theorem    | Lines are parallel if and only if they have equal slopes.                                                                                                                                                                                     |         |
| U5, L6<br>theorem    | Lines are perpendicular if and only if their slopes are opposite reciprocals.                                                                                                                                                                 |         |

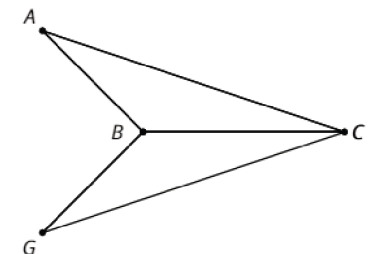
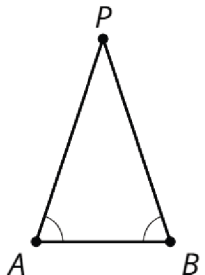
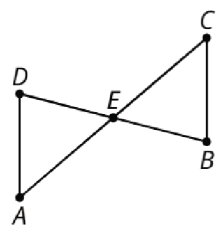
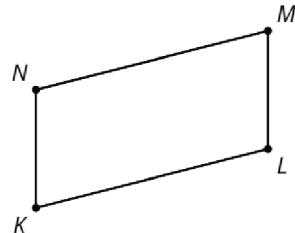
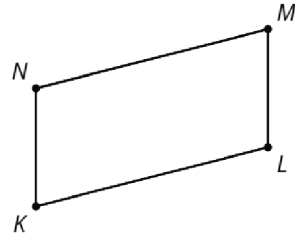
| fecha,<br>tipo | afirmación                                                                                                                                                                                                                                                                                                                                  | diagrama                                                                                                                                                      |
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| aserción       | <p>Una _____ es una _____, _____, _____, o cualquier secuencia de las tres.</p> <p>Las transformaciones rígidas llevan rectas a _____, ángulos a _____ de la misma medida y segmentos a _____ de la misma longitud.</p>                                                                                                                     |                                                                            |
| definición     | <p>Una figura es _____ a otra si existe una secuencia de _____, _____ y _____ que lleven la primera figura _____ a la segunda figura.</p> <p>La segunda figura se llama la _____ de la transformación rígida.</p>                                                                                                                           |                                                                            |
| definición     | <p>Una _____ es una transformación rígida que lleva un punto a otro punto que está a la misma _____ de la recta dada, pero del otro lado. El segmento que va del punto original a la imagen es _____ a la recta dada.</p> <p>“Reflejar <u>(objeto)</u> con respecto a la recta <u>(nombre)</u>”.</p>                                        |  <p>Reflejar A con respecto a la recta <math>m</math>.</p>                |
| definición     | <p>Una _____ es una transformación rígida que lleva un punto a otro punto de modo que el _____ dirigido que va del punto original a la imagen es _____ al segmento de recta dado y tiene la misma _____ y _____.</p> <p>“Trasladar <u>(objeto)</u> usando el segmento de recta dirigido <u>(nombre o que va de [punto] a [punto])</u>”.</p> |  <p>Trasladar A usando el segmento de recta dirigido <math>v</math>.</p> |

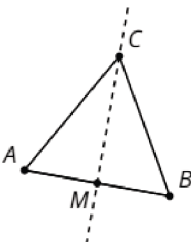
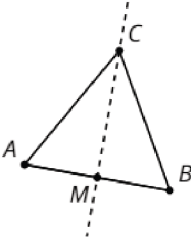
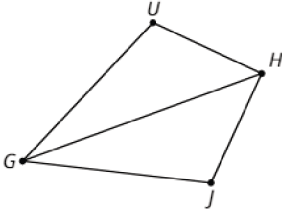
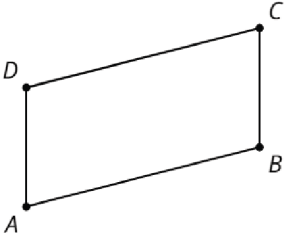
|          |                                                                                                                                                                                                                         |                                                                                    |
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| aserción | <p><b>Postulado de rectas paralelas:</b><br/>Dada una _____ <math>m</math> y un _____ <math>A</math><br/>que no está en _____, hay exactamente _____<br/>que pasa por <math>A</math> que es _____ a <math>m</math>.</p> |  |
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| fecha,<br>tipo | afirmación                                                                                                                                                                                                                                                                                                                                                                                                                                                        | diagrama                                                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| teorema        | Las _____ llevan rectas a _____ o a _____.                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                 |
| definición     | <p>Una _____ es una transformación _____ que lleva un punto a otro punto que está en el círculo con el _____ dado y que pasa por el punto original. Los dos radios, el que va del centro al punto original y el que va del centro a la imagen forman el _____ dado.</p> <p>“Rotar <u>(objeto)</u> (en el sentido de las manecillas del reloj o en el sentido contrario) usando <u>(ángulo o medida del ángulo)</u> como ángulo y <u>(punto)</u> como centro”.</p> |  <p>Rotar <math>P</math> en el sentido contrario de las manecillas del reloj usando <math>\alpha^\circ</math> como ángulo y <math>C</math> como centro.</p>                                                                                     |
| teorema        | Si dos figuras son _____, entonces las partes _____ de esas figuras deben ser _____.                                                                                                                                                                                                                                                                                                                                                                              |  <p><math>\triangle PQR \cong \triangle DEF</math>, entonces <math>PQ=DE</math>, <math>PR=DF</math>, <math>QR=EF</math>, <math>\angle P \cong \angle D</math>, <math>\angle Q \cong \angle E</math>, <math>\angle R \cong \angle F</math>.</p> |
| teorema        | Si todas las parejas de _____ correspondientes y todas las parejas de _____ correspondientes son congruentes, entonces los _____ deben ser _____.                                                                                                                                                                                                                                                                                                                 |  <p><math>AB=DE</math>, <math>BC=EF</math>, <math>CA=FD</math>, <math>\angle B \cong \angle E</math>, <math>\angle A \cong \angle D</math>, <math>\angle C \cong \angle F</math>, entonces</p>                                                |



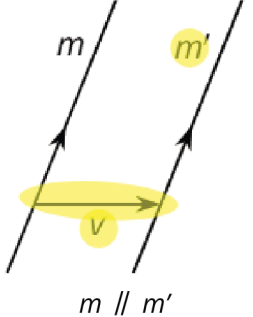
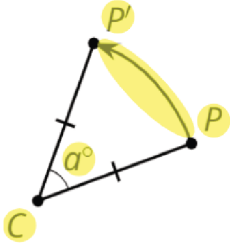
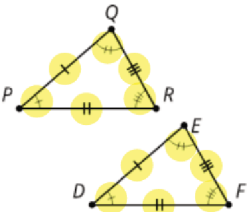
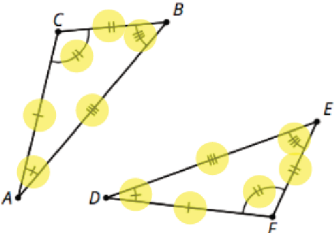
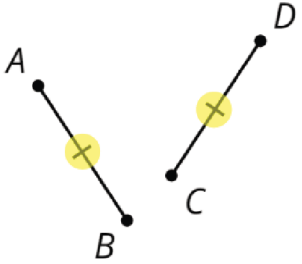
|         |                                                         |                                                                                    |
|---------|---------------------------------------------------------|------------------------------------------------------------------------------------|
| teorema | Si dos _____ tienen la misma _____, entonces son _____. |  |
|---------|---------------------------------------------------------|------------------------------------------------------------------------------------|

| fecha, tipo | afirmación                                                                                                                                                                                                                                  | diagrama                                                                                                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| teorema     | <b>Teorema de congruencia de triángulos</b><br>_____: dados dos triángulos, si hay dos parejas de _____ correspondientes que son _____ y los dos _____ correspondientes que ellos forman son _____, entonces los triángulos son _____.      |  <p><math>AB=GB</math>, <math>BC=BC</math>, <math>\angle ABC \cong \angle GBC</math>,<br/>entonces</p>                    |
| teorema     | <b>Teorema del triángulo _____:</b><br>en un triángulo _____, los _____ son _____.                                                                                                                                                          |                                                                                                                           |
| teorema     | <b>Teorema de congruencia de triángulos</b><br>_____: dados dos triángulos, si hay dos parejas de _____ correspondientes que son _____ y los dos _____ correspondientes que están entre ellos son _____, entonces los triángulos son _____. |  <p><math>\angle A \cong \angle C</math>, <math>AE=EC</math>, <math>\angle DEA \cong \angle BEC</math>,<br/>entonces</p> |
| definición  | Un _____ es un cuadrilátero que tiene dos parejas de lados _____ que son _____.                                                                                                                                                             |  <p><math>NM \parallel KL</math>, <math>NK \parallel ML</math>, entonces</p>                                            |
| teorema     | En un _____, los lados que son _____ también son _____.                                                                                                                                                                                     |  <p><math>MNKL</math> es un paralelogramo,<br/>entonces</p>                                                             |

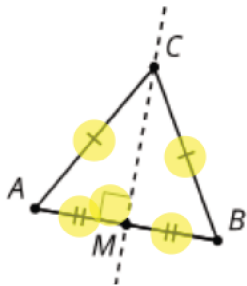
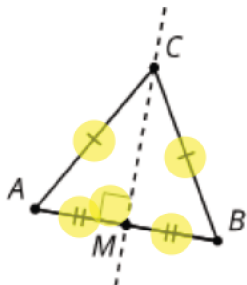
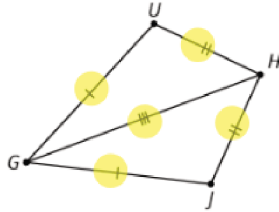
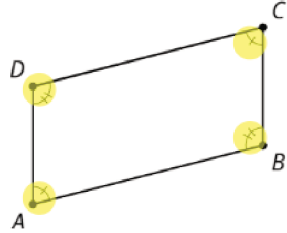
| fecha, tipo | afirmación                                                                                                                                                               | diagrama                                                                                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| teorema     | Si un _____ $C$ está a la misma _____ de _____ que de _____, entonces $C$ debe estar en la _____ de $AB$ .                                                               |  <p><math>AC=BC</math>, <math>M</math> es el punto medio, entonces</p>        |
| teorema     | Si $C$ es un punto de la _____ del segmento $AB$ , la distancia de _____ a _____ es igual a la _____ de _____ a _____.                                                   |  <p><math>AB \perp CM</math>, <math>AM=BM</math>, entonces</p>                |
| teorema     | <b>Teorema de congruencia de triángulos</b><br>_____: dados dos triángulos, si _____ de _____ correspondientes son congruentes, entonces los triángulos deben ser _____. |  <p><math>HU=HJ</math>, <math>UG=JG</math>, <math>HG=HG</math>, entonces</p> |
| teorema     | En un _____, los ángulos _____ son _____.                                                                                                                                |  <p><math>ABCD</math> es un paralelogramo, entonces</p>                     |

| fecha, tipo | afirmación                                                                                                                                                                                                                             | diagrama |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| definición  | Una _____ es una transformación en la que cada punto de una figura es llevado a lo largo de una recta y cuya distancia a un punto fijo, llamado el "_____", cambia. Todas las distancias originales se multiplican por el mismo _____. |          |
| definición  | La forma _____ de la ecuación de una recta es _____, donde $(h, k)$ es un _____ específico de la recta y $m$ es la _____ de la recta.                                                                                                  |          |
| teorema     | Dos rectas son _____ si y solo si tienen _____.                                                                                                                                                                                        |          |
| teorema     | Dos rectas son _____ si y solo si sus _____ son _____.                                                                                                                                                                                 |          |

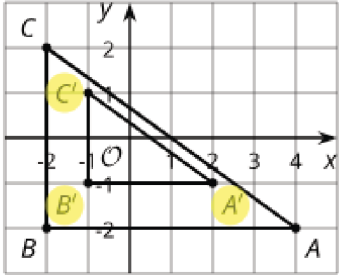
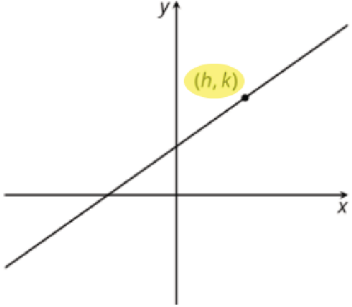
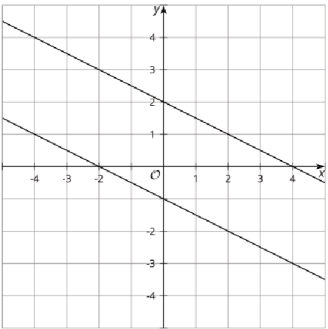
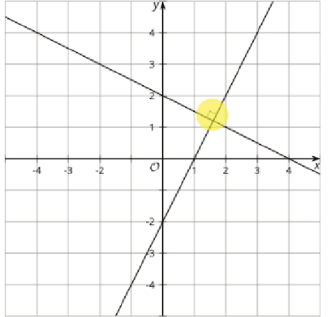
| lesson,<br>type                                                 | statement                                                                                                                                                                                                                                                                                                                                                                         | diagram                                                  |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| U1, L10<br><br>(students<br>write the<br>date)<br><br>assertion | <p>A <b>rigid transformation</b> is a <b>translation</b>, <b>reflection</b>, <b>rotation</b>, or any sequence of the three.</p> <p>Rigid transformations take lines to <b>lines</b>, angles to <b>angles</b> of the same measure, and segments to <b>segments</b> of the same length.</p>                                                                                         |                                                          |
| U1, L10<br><br>definition                                       | <p>One figure is <b>congruent</b> to another if there is a sequence of <b>translations</b>, <b>rotations</b>, and <b>reflections</b> that takes the first figure <b>exactly</b> onto the second figure.</p> <p>The second figure is called the <b>image</b> of the rigid transformation.</p>                                                                                      | <p><math>\triangle EDC \cong \triangle E'D'C'</math></p> |
| U1, L11<br><br>definition                                       | <p><b>Reflection</b> is a rigid transformation that takes a point to another point that is the same <b>distance</b> from the given line, is on the other side of the given line, and so that the segment from the original point to the image is <b>perpendicular</b> to the given line.</p> <p>"Reflect <u>(object)</u> across line <u>(name)</u>."</p>                          | <p>Reflect A across line m.</p>                          |
| U1, L12<br><br>definition                                       | <p><b>Translation</b> is a rigid transformation that takes a point to another point so that the directed <b>line segment</b> from the original point to the image is <b>parallel</b> to the given line segment and has the same <b>length</b> and <b>direction</b>.</p> <p>"Translate <u>(object)</u> by the directed line segment <u>(name or from [point] to [point])</u>."</p> | <p>Translate A by the directed line segment v.</p>       |
| U1, L12<br><br>assertion                                        | <p><b>Parallel Postulate:</b> Given a <b>line</b> m and a <b>point</b> A that is not on m, there is exactly <b>one line</b> that goes through A that is <b>parallel</b> to m.</p>                                                                                                                                                                                                 |                                                          |

| lesson,<br>type       | statement                                                                                                                                                                                                                                                                                                                                          | diagram                                                                                                                                                                                                                                         |
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| U1, L12<br>theorem    | Translations take lines to parallel lines or to themselves.                                                                                                                                                                                                                                                                                        | <br>$m \parallel m'$                                                                                                                                         |
| U1, L14<br>definition | <b>Rotation</b> is a rigid transformation that takes a point to another point on the circle through the original point with the given center. The two radii to the original point and the image make the given angle.<br>"Rotate <u>(object)</u> (clockwise or counterclockwise) by <u>(angle or angle measure)</u> using center <u>(point)</u> ." | <br>Rotate $P$ counterclockwise by $a^\circ$ using center $C$ .                                                                                              |
| U2, L1<br>theorem     | If two figures are congruent, then corresponding parts of those figures must be congruent                                                                                                                                                                                                                                                          | <br>$\triangle PQR \cong \triangle DEF$ so $PQ=DE$ , $PR=DF$ , $QR=EF$ , $\angle P \cong \angle D$ , $\angle Q \cong \angle E$ , $\angle R \cong \angle F$  |
| U2, L3<br>theorem     | If all pairs of corresponding sides and all pairs of corresponding angles are congruent, then the triangles must be congruent.                                                                                                                                                                                                                     | <br>$AB=DE$ , $BC=EF$ , $CA=FD$ , $\angle B \cong \angle E$ , $\angle A \cong \angle D$ , $\angle C \cong \angle F$ so $\triangle ABC \cong \triangle DEF$ |
| U2, L5<br>theorem     | If two segments have the same length, then they are congruent.                                                                                                                                                                                                                                                                                     | <br>$AB = CD$ so, $\overline{AB} \cong \overline{CD}$                                                                                                      |

| lesson,<br>type      | statement                                                                                                                                                                                                                                                     | diagram                                                                                                                                |
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| U2, L6<br>theorem    | <b>Side-Angle-Side Triangle Congruence Theorem:</b> In two triangles, if two pairs of congruent <b>corresponding sides</b> and the pair of corresponding <b>angles</b> between the sides are <b>congruent</b> , then the two triangles are <b>congruent</b> . | <p><math>AB=GB, BC=BC, \angle ABC \cong \angle GBC</math> so<br/><math>\triangle ABC \cong \triangle GBC</math></p>                    |
| U2, L6<br>theorem    | <b>Isosceles Triangle Theorem:</b> In an <b>isosceles</b> triangle, the <b>base angles</b> are <b>congruent</b> .                                                                                                                                             | <p><math>AP=PB</math> so <math>\angle A \cong \angle B</math></p>                                                                      |
| U2, L7<br>theorem    | <b>Angle-Side-Angle Triangle Congruence Theorem:</b> In two triangles, if two pairs of corresponding <b>angles</b> , and the pair of corresponding <b>sides</b> between the angles are <b>congruent</b> , then the triangles must be <b>congruent</b> .       | <p><math>\angle A \cong \angle C, AE=EC, \angle DEA \cong \angle BEC,</math><br/>so <math>\triangle DEA \cong \triangle BEC</math></p> |
| U2, L7<br>definition | A <b>parallelogram</b> is a quadrilateral with two pairs of <b>opposite sides parallel</b> .                                                                                                                                                                  | <p><math>NM \parallel KL, NK \parallel ML</math>, so<br/><math>MNKL</math> is a parallelogram</p>                                      |
| U2, L7<br>theorem    | In a <b>parallelogram</b> , pairs of <b>opposite sides</b> are <b>congruent</b> .                                                                                                                                                                             | <p><math>MNKL</math> is a parallelogram, so<br/><math>NM=KL, NK=ML</math></p>                                                          |

| lesson, type      | statement                                                                                                                                                           | diagram                                                                                                                                                                                                              |
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| U2, L8<br>theorem | If a point $C$ is the same distance from $A$ as it is from $B$ , then $C$ must be on the perpendicular bisector of $AB$ .                                           |  <p><math>AC=BC</math>, <math>M</math> is the midpoint, so <math>MC \perp AB</math></p>                                           |
| U2, L8<br>theorem | If $C$ is a point on the perpendicular bisector of segment $AB$ , the distance from $C$ to $A$ is the same as the distance from $C$ to $B$ .                        |  <p><math>AB \perp CM</math>, <math>AM=BM</math>, so <math>AC=BC</math></p>                                                       |
| U2, L9<br>theorem | <b>Side-Side-Side Triangle Congruence Theorem:</b> In two triangles, if all three pairs of corresponding sides are congruent, then the triangles must be congruent. |  <p><math>HU=HJ</math>, <math>UG=JG</math>, <math>HG=HG</math> so<br/><math>\triangle HUG \cong \triangle HJG</math></p>         |
| U2, L9<br>theorem | In a parallelogram, opposite angles are congruent.                                                                                                                  |  <p><math>ABCD</math> is a parallelogram,<br/>so <math>\angle A \cong \angle C</math>, <math>\angle D \cong \angle B</math></p> |



| lesson,<br>type      | statement                                                                                                                                                                                                                                              | diagram                                                                               |
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| U5, L2<br>definition | A <b>dilation</b> is a transformation in which each point on a figure moves along a line and changes its distance from a fixed point, called the " <b>center of dilation</b> ." All of the original distances are multiplied by the same scale factor. |    |
| U5, L4<br>definition | The <b>point-slope form</b> of the equation of a line is $y - k = m(x - h)$ where $(h, k)$ is a particular <b>point</b> on the line and $m$ is the <b>slope</b> of the line.                                                                           |    |
| U5, L5<br>theorem    | Lines are <b>parallel</b> if and only if they have <b>equal slopes</b> .                                                                                                                                                                               |   |
| U5, L6<br>theorem    | Lines are <b>perpendicular</b> if and only if their <b>slopes</b> are <b>opposite reciprocals</b> .                                                                                                                                                    |  |

| fecha,<br>tipo | afirmación | diagrama |
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