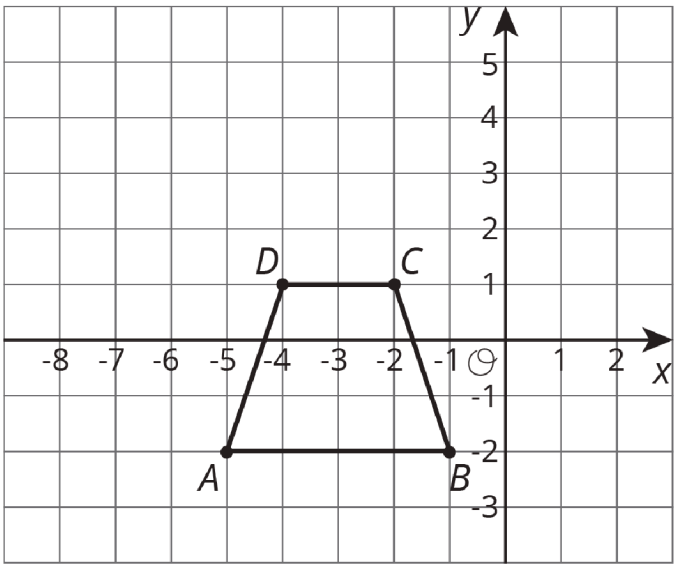
Card Sort: Matching Dilations on a Coordinate Plane

1



Dilate the trapezoid using center $(-1, -2)$ and scale factor $\frac{3}{2}$

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C

The polygon with vertices at:

$A' = (-7, -2)$

$B' = (-1, -2)$

$C' = (-2\frac{1}{2}, 2\frac{1}{2})$

$D' = (-5\frac{1}{2}, 2\frac{1}{2})$

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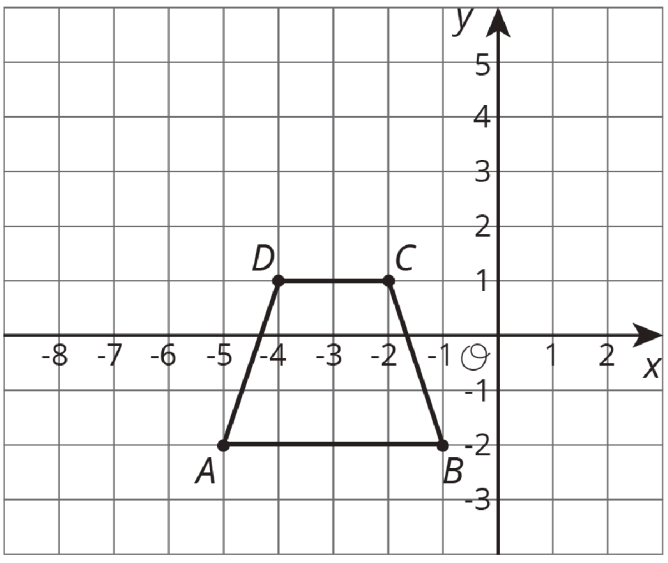
2



Dilate the trapezoid using center $(-3, 4)$ and scale factor $\frac{1}{2}$.

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A

The polygon with vertices at:

$A' = (-4, 1)$

$B' = (-2, 1)$

$C' = (-2\frac{1}{2}, 2\frac{1}{2})$

$D' = (-3\frac{1}{2}, 2\frac{1}{2})$

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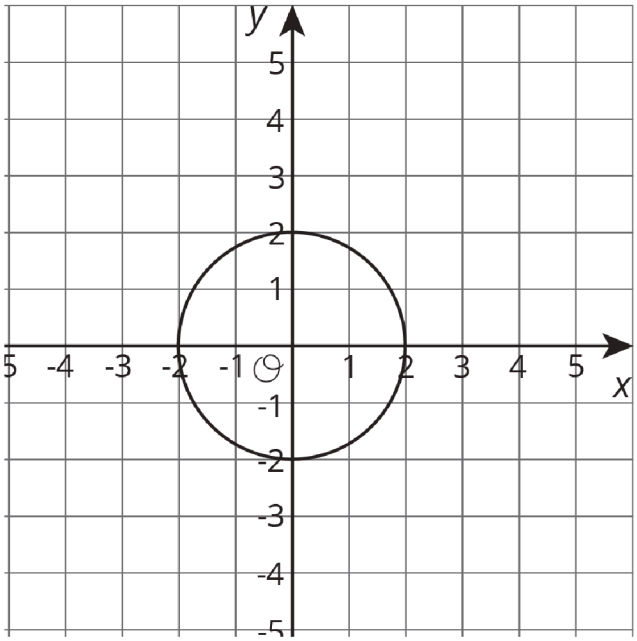
3



Dilate the circle using center $(0, 0)$ and scale factor 2.

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B

The circle with center $(0, 0)$ and radius 4.

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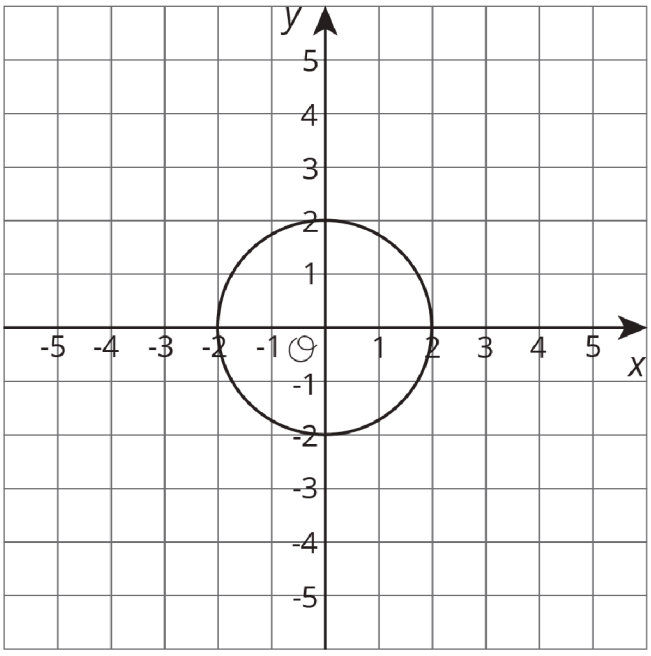
4



Dilate the circle using center $(0, 0)$ and scale factor $\frac{1}{2}$.

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E

The circle with center $(0, 0)$ and radius 1.

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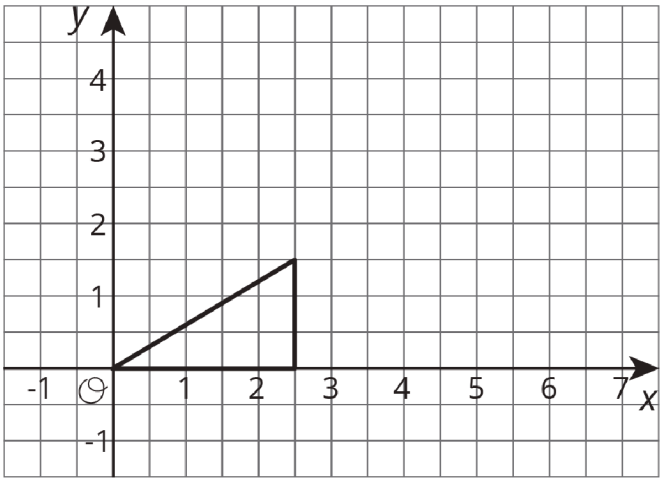
5



Dilate the triangle using center $(0, 0)$ and scale factor 2.

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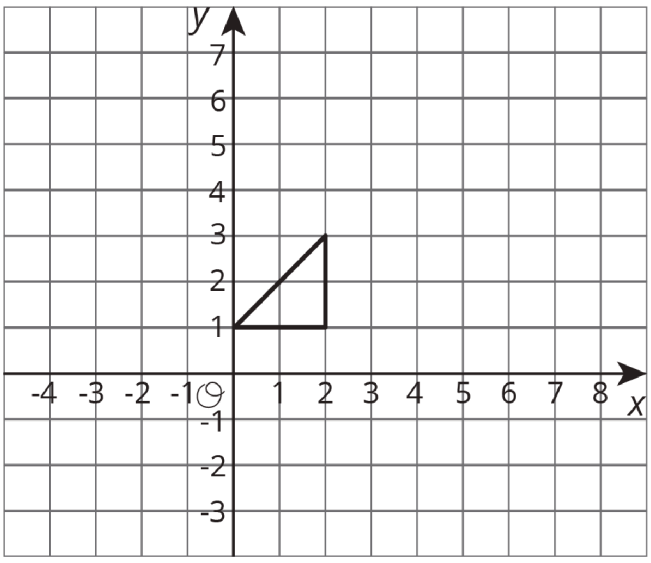
6



Dilate the triangle using center $(-4, -3)$ and scale factor 1.5.

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D

The polygon with vertices at $(2, 3)$, $(5, 3)$, and $(5, 6)$.