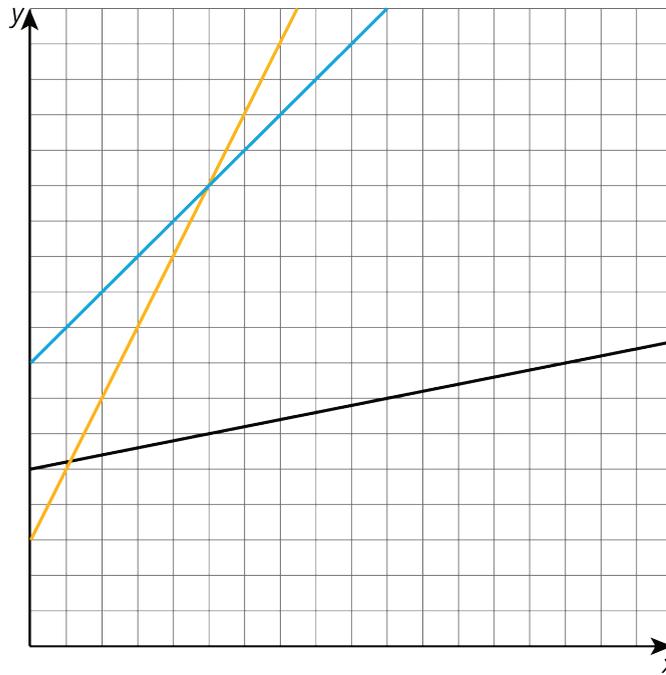


Lesson 10 Practice Problems

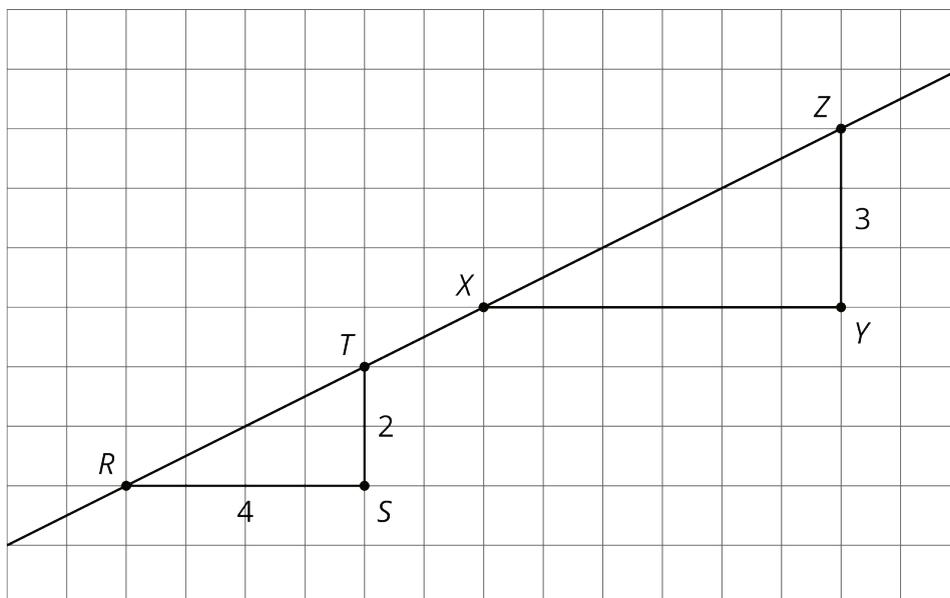
1. Of the three lines in the graph, one has slope 1, one has slope 2, and one has slope $\frac{1}{5}$. Label each line with its slope.



2. Draw three lines with slope 2, and three lines with slope $\frac{1}{3}$. What do you notice?



3. The figure shows two right triangles, each with its longest side on the same line.



- Explain how you know the two triangles are similar.
- How long is XY ?
- For each triangle, calculate (vertical side) \div (horizontal side).
- What is the slope of the line? Explain how you know.

4. Triangle A has side lengths 3, 4, and 5. Triangle B has side lengths 6, 7, and 8.

- Explain how you know that Triangle B is *not* similar to Triangle A .
- Give possible side lengths for Triangle B so that it is similar to Triangle A .

(From Unit 2, Lesson 9.)