

Additional Practice 8.6

NAME _____

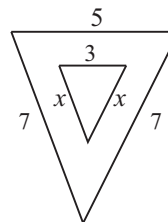
Module 8 Points, Lines, Angles, and Triangles
Lesson 6 Similar Triangles

Tell if each statement is true or false. If false, draw two triangles that prove it false.

1. All right triangles are similar.
2. All equilateral triangles are similar.
3. All isosceles triangles are similar.

Solve.

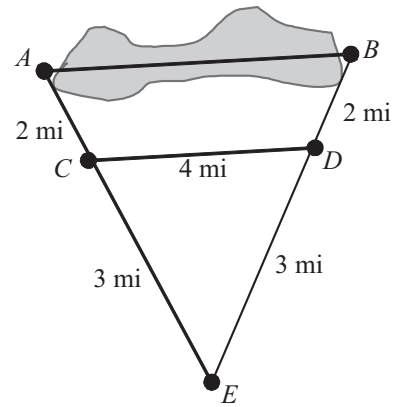
4. The triangles at right are similar. Find the value of x .



5. If $\triangle PEG \sim \triangle BOY$ and $m\angle P = 130^\circ$ and $m\angle O = 30^\circ$, what is $m\angle G$?

6. In the figure at right, $\overline{AB} \parallel \overline{CD}$.

a. Tell why $\angle A \cong \angle C$ and why $\angle B \cong \angle D$.



b. Tell why $\triangle ABE \sim \triangle CDE$.

c. Find AB , the length across the lake.