NAME_____

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

Additional Practice 8.6

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

1. All right triangles are similar.

False

2. All equilateral triangles are similar.

True

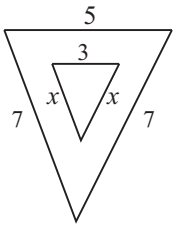
3. All isosceles triangles are similar.

False

Solve.

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

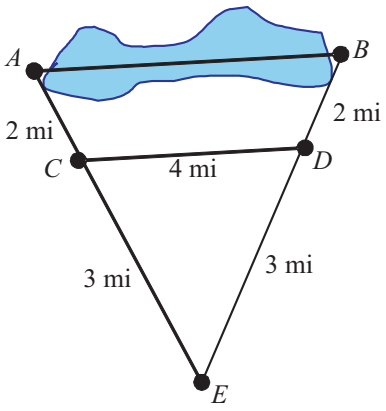
$4\frac{1}{5}$



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

20°

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



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

When two parallel lines are cut by a transversal, the corresponding angles are congruent.

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

AA Similarity Rule

c. Find AB, the length across the lake.

$6\frac{2}{3}$ miles