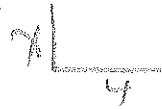


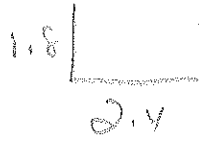
Use similar triangles to find the missing information.

7. A giraffe is 18 feet tall and casts a shadow of 12 feet. Corry casts a shadow of 4 feet. How tall is Corry?



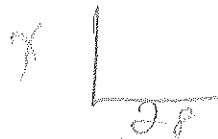
6

8. When a Ferris wheel casts a 20-meter shadow, a man 1.8 meters tall casts a 2.4-meter shadow. How tall is the Ferris wheel?



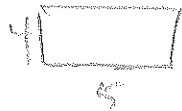
15

9. A flagpole casts a shadow 28 feet long. A person standing nearby casts a shadow eight feet long. If the person is six feet tall, how tall is the flagpole?



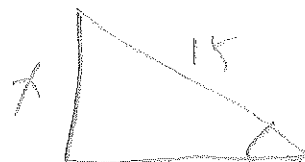
21

10. A photograph measuring four inches wide and five inches long is enlarged to make a wall mural. If the mural is 120 inches wide, how long is the mural?



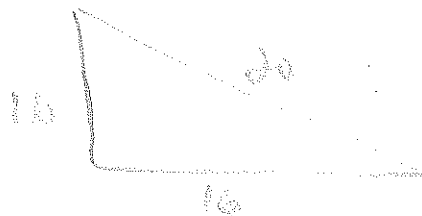
150

11. A 9-foot ladder leans against a building six feet above the ground. At what height would a 15-foot ladder touch the building if both ladders form the same angle with the ground?



10

12. Chris wants to reduce a triangular pattern with sides 16, 16 and 20 centimeters. If the longest side of the new pattern is to be 15 cm, how long should the other two sides be?



12

Name : _____

Score : _____

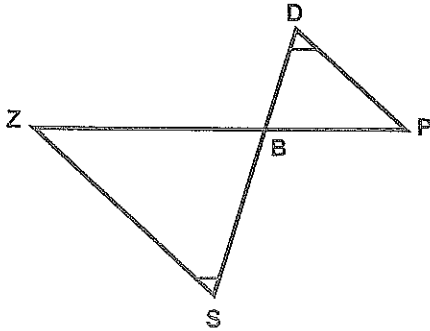
Teacher : _____

Date : _____

Similar Right Triangles

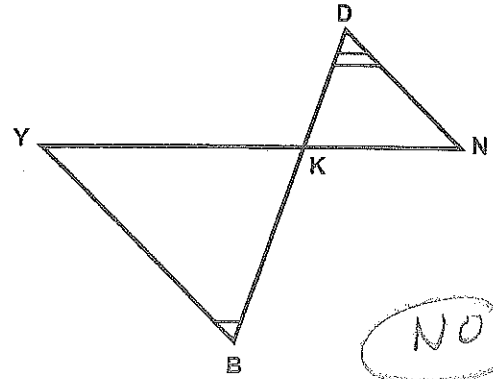
State if each triangle pair is similar. If so, state the similarity type and name the similar triangle.

1)



$\triangle PBD \sim \underline{BSZ}$

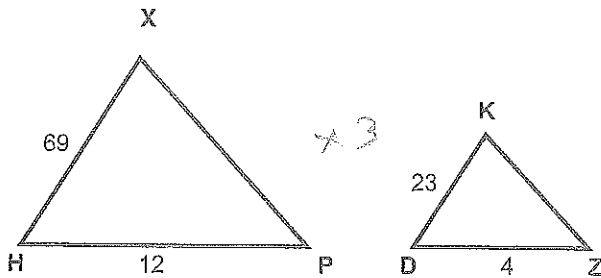
2)



NO

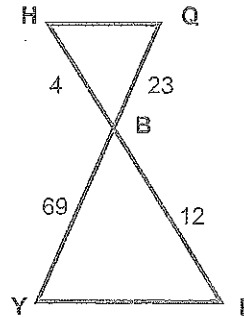
$\triangle NKD \sim \underline{\hspace{2cm}}$

3)



$\triangle XHP \sim \underline{KDZ}$

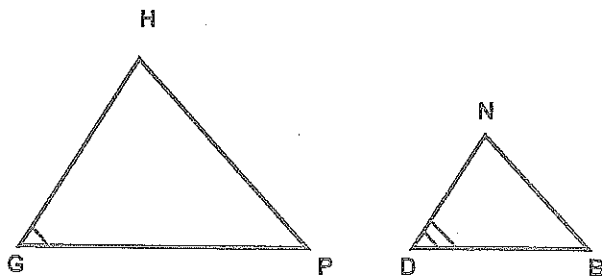
4)



$$\begin{array}{r} 4 \times 12 \\ \hline 23 \quad 69 \end{array}$$

$\triangle QBH \sim \underline{BDY}$

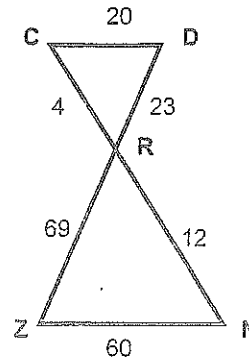
5)



NO

$\triangle HGP \sim \underline{\hspace{2cm}}$

6)

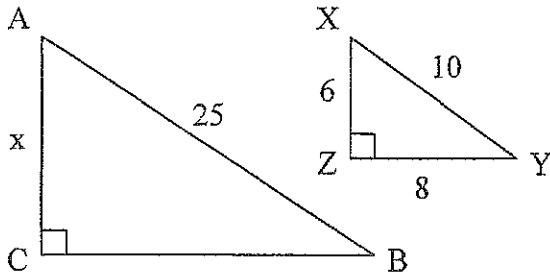


$\triangle DRC \sim \underline{NRZ}$



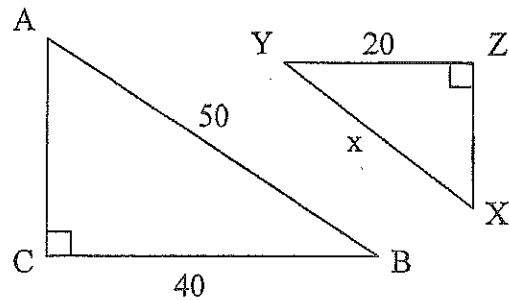
Find the missing side lengths in each pair of similar figures.

1. $\triangle ABC \sim \triangle XYZ$



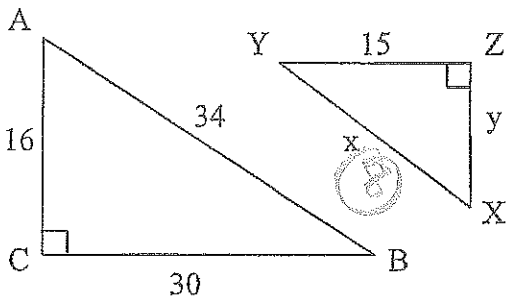
15

2. $\triangle ABC \sim \triangle XYZ$



25

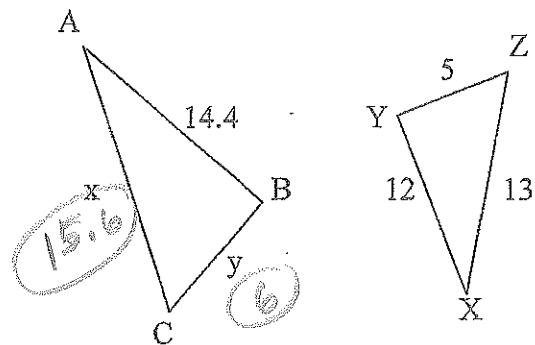
3. $\triangle ABC \sim \triangle XYZ$



17

8

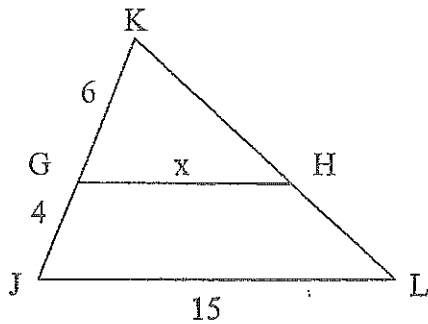
4. $\triangle ABC \sim \triangle XYZ$



15.6

6

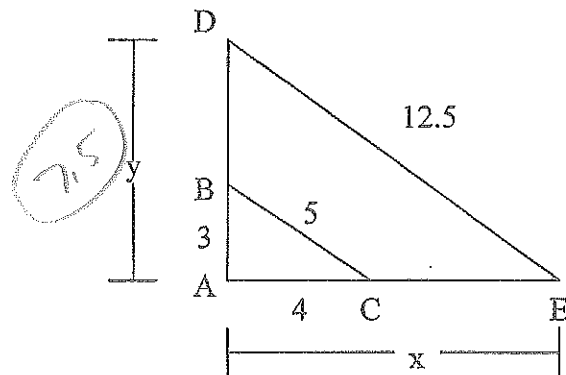
5. $\triangle JKL \sim \triangle GKH$



9

$$\frac{6}{4} = \frac{x}{15}$$

6. $\triangle ABC \sim \triangle ADE$



7.5

10