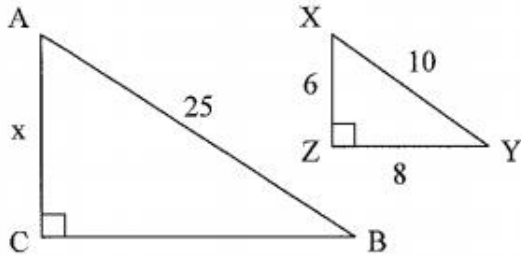
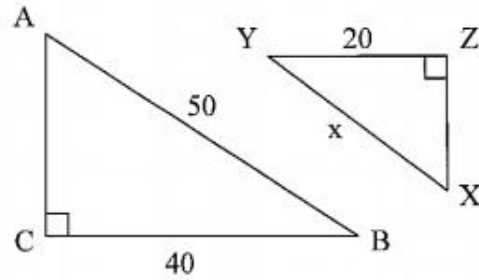


**Find the missing side lengths in each pair of similar figures.**

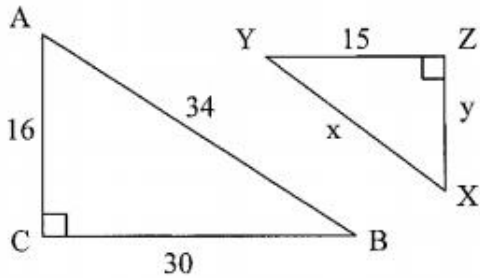
1.  $\triangle ABC \sim \triangle XYZ$



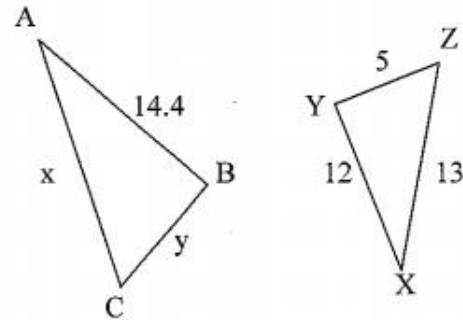
2.  $\triangle ABC \sim \triangle XYZ$



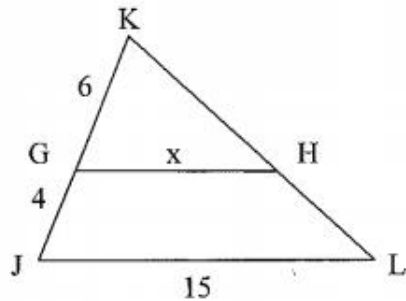
3.  $\triangle ABC \sim \triangle XYZ$



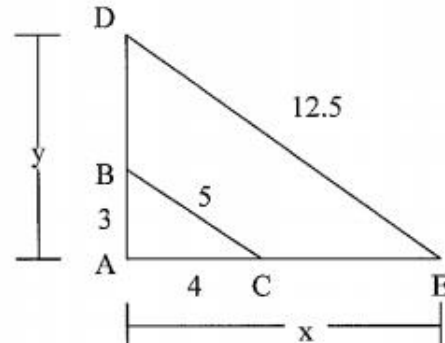
4.  $\triangle ABC \sim \triangle XYZ$



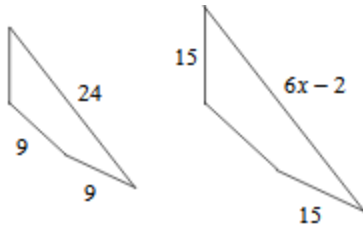
5.  $\triangle JKL \sim \triangle GKH$



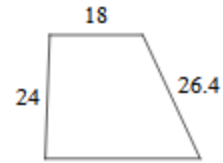
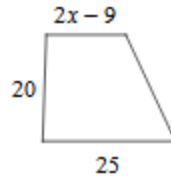
6.  $\triangle ABC \sim \triangle ADE$



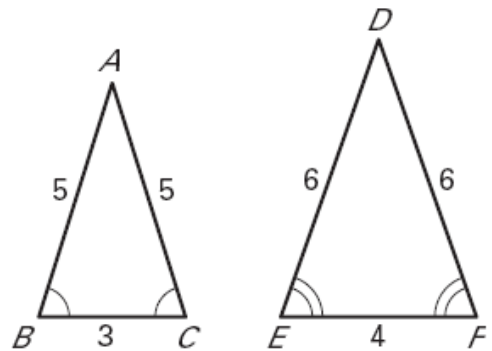
7)



8)



9) Determine whether the polygons are similar. If they are, write a similarity statement and find the scale factor.



10) Triangles  $ABC$  and  $DEF$  are similar. Which statement is not correct? Describe your

- reasoning.
- A.  $\frac{AB}{DE} = \frac{BC}{EF}$
  - B.  $\frac{CA}{FD} = \frac{AB}{DE}$
  - C.  $\angle A \cong \angle F$

The community park has a rectangular swimming pool enclosed by a rectangular fence for sunbathing. The shape of the pool is similar to the shape of the fence. The pool is 30 feet wide. The fence is 50 feet wide and 100 feet long.

11) What is the scale factor of the pool to the fence?

12) What is the length of the pool?