

# A Postulate for Similar Triangles

For use after Section 7-4

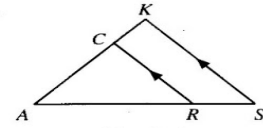
Refer to the diagram and complete.

1.  $\triangle CAR \sim \triangle$  \_\_\_\_\_

2.  $\frac{CR}{KS} = \frac{?}{AK}$  \_\_\_\_\_

3.  $\angle S \cong \angle$  \_\_\_\_\_

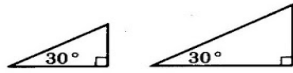
4.  $\frac{SK}{RC} = \frac{AS}{?}$  \_\_\_\_\_



Exs. 1-4

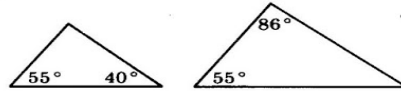
Tell whether the triangles are similar or not similar.

5.



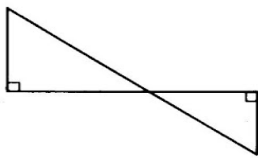
\_\_\_\_\_

6.



\_\_\_\_\_

7.



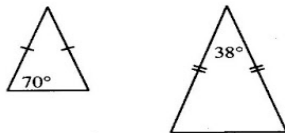
\_\_\_\_\_

8.



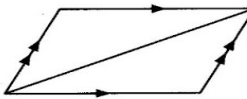
\_\_\_\_\_

9.



\_\_\_\_\_

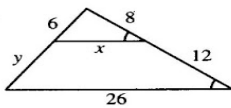
10.



\_\_\_\_\_

Similar triangles are shown. Find the values of  $x$  and  $y$ .

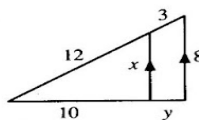
11.



$x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

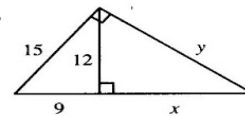
12.



$x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

13.



$x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_