

Similar Polygons

For use after Section 7-3

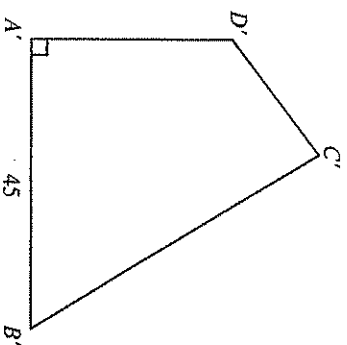
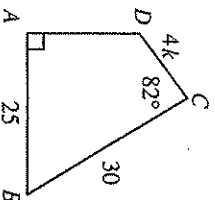
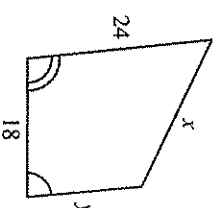
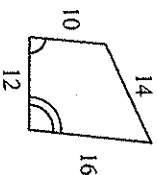
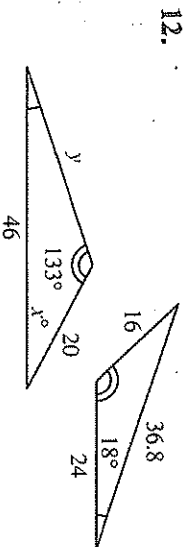
Tell whether the polygons are *always*, *sometimes*, or *never* similar.

- Two triangles _____
- Two congruent pentagons _____
- Two regular octagons _____
- A rectangle and a square _____
- A right triangle and an isosceles triangle _____
- A parallelogram and a trapezoid _____

In Exercises 7-11 quad. $ABCD \sim$ quad. $A'B'C'D'$.

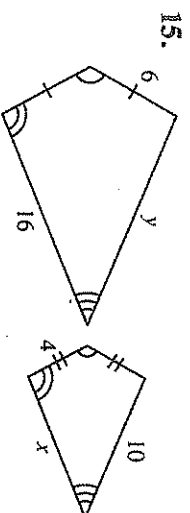
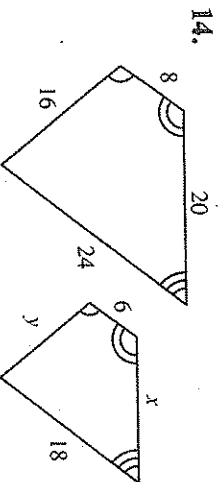
- What is the scale factor of quad. $ABCD$ to quad. $A'B'C'D'$? _____
- Find $m\angle C'$. _____
- Find $B'C'$. _____
- Find $D'C'$ in terms of k . _____
- Find the ratio of the perimeters. _____

Exs. 7-11


Two similar polygons are shown. Find the values of x and y .


$$x = \text{_____}; y = \text{_____}$$

$$x = \text{_____}; y = \text{_____}$$



$$x = \text{_____}; y = \text{_____}$$

$$x = \text{_____}; y = \text{_____}$$