

Similar Polygons

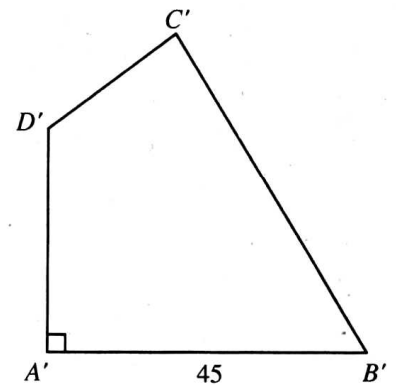
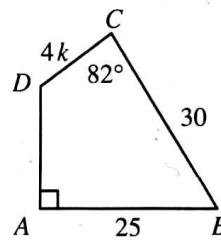
For use after Section 7-3

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

1. Two triangles _____
2. Two congruent pentagons _____
3. Two regular octagons _____
4. A rectangle and a square _____
5. A right triangle and an isosceles triangle _____
6. A parallelogram and a trapezoid _____

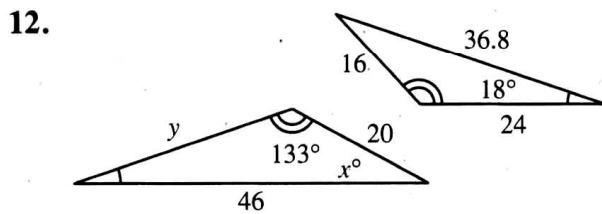
In Exercises 7-11 quad. $ABCD \sim$ quad. $A'B'C'D'$.

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

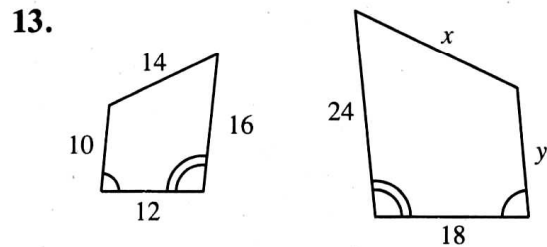


Exs. 7-11

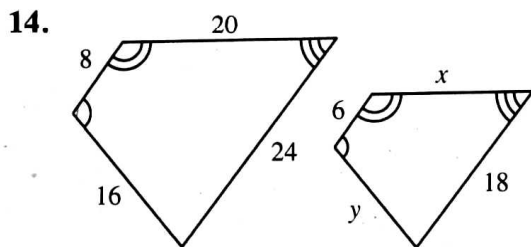
Two similar polygons are shown. Find the values of x and y .



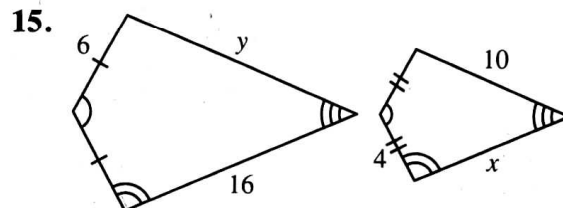
$x =$ _____ ; $y =$ _____



$x =$ _____ ; $y =$ _____



$x =$ _____ ; $y =$ _____



$x =$ _____ ; $y =$ _____