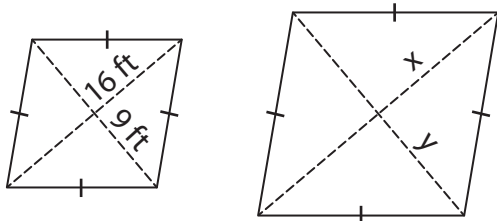


## Scale Factor - Finding Sides

Each pair of figures is similar. Find x and y. (A denotes Area and P denotes Perimeter)

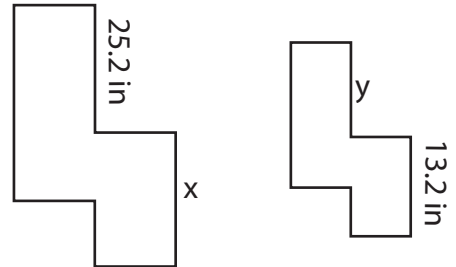
1)



$A = 150 \text{ ft}^2$

$x = \underline{\hspace{2cm}} ;$

2)

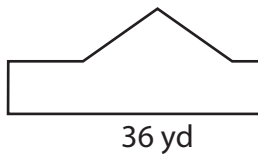


$P = 79.2 \text{ in}$

in

$y = \underline{\hspace{2cm}} ;$

3)



$A = 243 \text{ yd}^2$

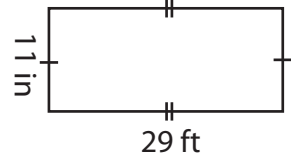
$x = \underline{\hspace{2cm}} ;$

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$y = \underline{\hspace{2cm}} ;$

5) A and B are similar isosceles trapezoids. The top base of A is 10 inches, the bottom base is 20 inches, and the remaining side is 14 inches.

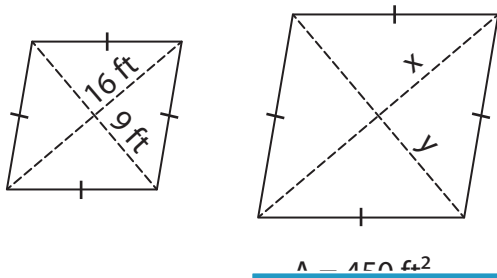
B has a top base of 5.6 inches and the perimeter is 54 inches.

6) In a trapezoid G, the parallel bases are 15 yards and 21 yards. The distance between the parallel sides is 16 yards. If the area of a similar trapezoid H is 8 square yards, find the length of its parallel sides.

**Scale Factor - Finding Sides**

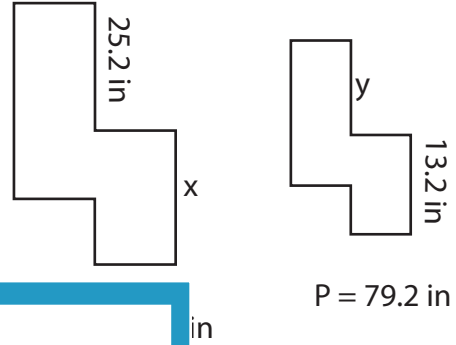
Each pair of figures is similar. Find x and y. (A denotes Area and P denotes Perimeter)

1)



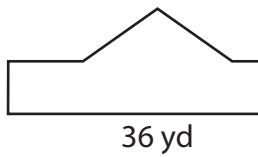
x = 40 ft ;

2)



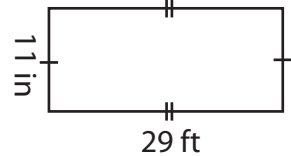
y = 17.6 in

3)



A = 243 yd<sup>2</sup>

x = 54 yd ;



y = 8.25 ft

5) A and B are similar isosceles triangles. The base of triangle A is 10 inches and the remaining side is 14 inches.

The perimeter of triangle B is 54 inches. Find the length of its remaining side.

**The sides of triangle A measure 24 inches, 24 inches and 6 inches.**

6) In a trapezoid G, the parallel bases are 15 yards and 21 yards. The distance between the parallel sides is 16 yards. If the area of a similar trapezoid H is 8 square yards, find the length of its parallel sides.

**The length of the parallel sides of trapezoid H are 2.51 yards and 3.5 yards.**

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