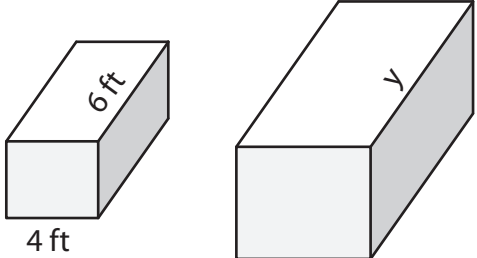


Scale Factor - Finding Sides

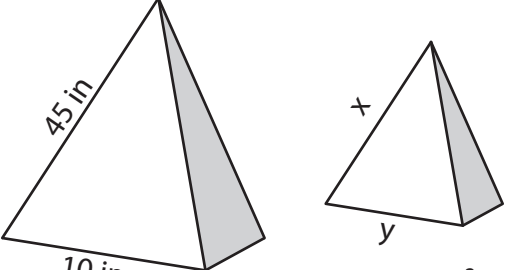
Each pair of figures is similar. Find x and y (SA denotes Surface Area and V denotes Volume).

1)



$V = 48 \text{ ft}^3$

2)

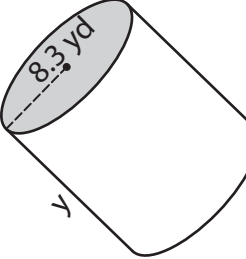


$SA = 54 \text{ in}^2$

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

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

3)



$SA = 413.34\pi \text{ yd}^2$

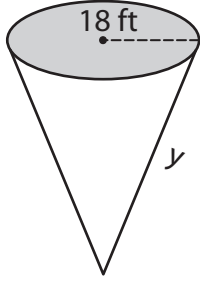
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$V = 2916\pi \text{ ft}^3$

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

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

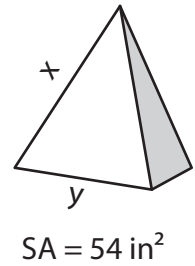
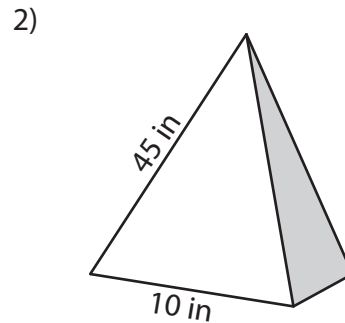
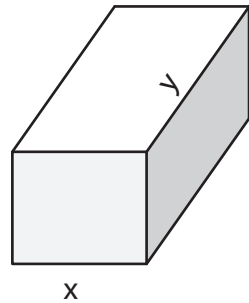
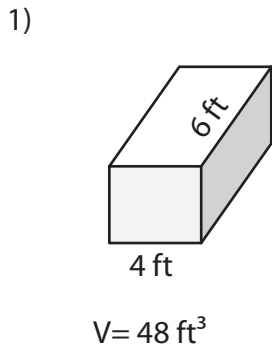
5) Trapezoidal prisms 1 yards respectively. If of the parallel sides

cubic yards and 15 cubic , what will be the length

6) Two rectangular pyramids are similar with surface areas 9 square inches and 64 square inches. Find the width and height of the smaller pyramid, if the width and height of the larger pyramid are 8 inches and 24 inches respectively.

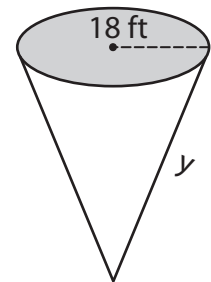
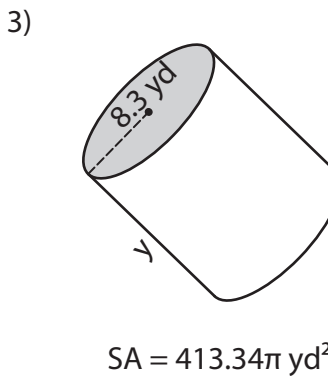
Scale Factor - Finding Sides

Each pair of figures is similar. Find x and y (SA denotes Surface Area and V denotes Volume).



x = 14 ft ;

y = 2 in



x = 5 yd ;

y = 27 ft

5) Trapezoidal prisms L and M have parallel sides of 42 yards and 12 yards respectively. If the length of the parallel sides of prism L are 42 yards and 12 yards respectively, what will be the length of the parallel sides of prism M?

15 cubic yards and 15 cubic yards respectively, what will be the length of the parallel sides of prism M?

The length of the parallel sides of prism L are 42 yards and 12 yards respectively.

6) Two rectangular pyramids are similar with surface areas 9 square inches and 64 square inches. Find the width and height of the smaller pyramid, if the width and height of the larger pyramid are 8 inches and 24 inches respectively.

The width and height of the smaller pyramid are 3 inches and 9 inches respectively.

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