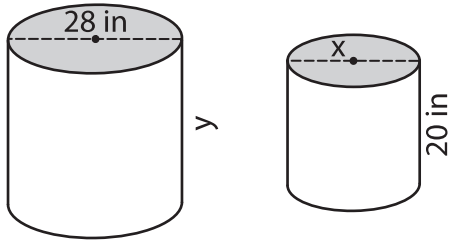Name : _____

Scale Factor - Finding Sides

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

1)
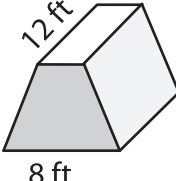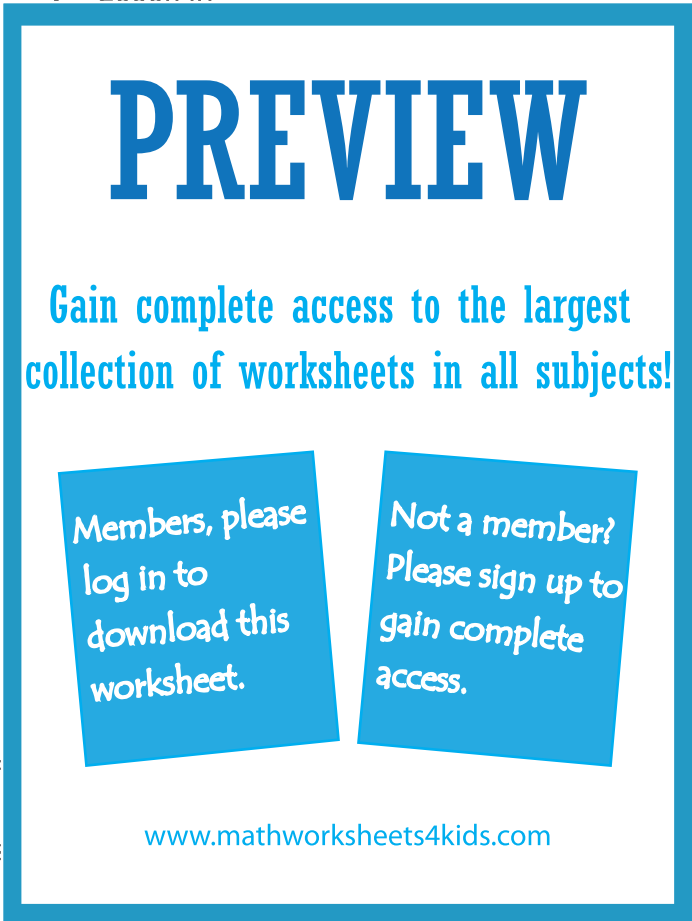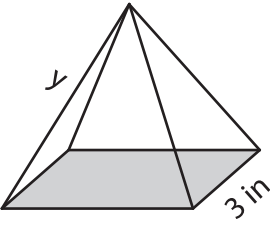
28 in

y

x

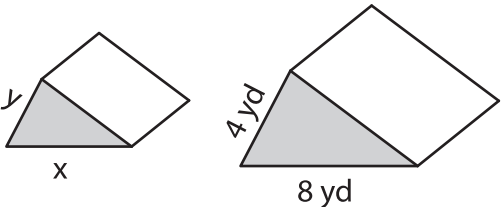20 in

V = 5488π in³

V = 2000π in³

x = _____

2)

y

x

SA = 30 yd²

4 yd

8 yd

SA = 1920 yd²

_____ ; y = _____

3)

12 ft

8 ft

V = 256 ft³

x = _____ ;

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y

3 in

SA = 315 in²

_____ ; y = _____

5) The surface areas of _____ eet and 132 square feet respectively. The he_____ 4 feet respectively. Find the height and the s_____

_____

6) The volumes of two similar cones are 125π cubic yards and 5.832π cubic yards. If the diameter and height of the larger cone are 10 yards and 15 yards respectively, find the diameter and height of the smaller cone.

_____