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

1) 
\[ V = 48 \text{ ft}^3 \]
\[ x = \quad ; \quad y = \quad \]

2) 
\[ V = 256\pi \text{ ft}^3 \]
\[ x = \quad ; \quad y = \quad \]

3) 
\[ SA = 413.34\pi \text{ yd}^2 \]
\[ x = \quad ; \quad y = \quad \]

5) 
Two rectangular prisms L and M are similar. The volumes of L and M are 3240 cubic yards and 15 cubic yards respectively. If the parallel sides of M measures 7 yards and 2 yards, what will be the length of the parallel sides of L?

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

1)\[ \begin{align*}
4 \text{ ft} & \quad 6 \text{ ft} \\
V &= 48 \text{ ft}^3
\end{align*} \]

\[ x = 14 \text{ ft} \quad ; \quad y = \_ \_ \text{ in} \]

2)\[ \begin{align*}
10 \text{ in} & \quad 45 \text{ in} \\
\text{SA} &= 54 \text{ in}^2
\end{align*} \]

\[ x = \_ \_ \text{ ft} \quad ; \quad y = 2 \text{ in} \]

3)\[ \begin{align*}
8.3 \text{ yd} & \\
\text{SA} &= 413.34\pi \text{ yd}^2
\end{align*} \]

\[ x = 5 \text{ yd} \quad ; \quad y = \_ \_ \text{ ft} \]

4)\[ \begin{align*}
18 \text{ ft} & \\
\text{SA} &= 150\pi \text{ yd}^2
\end{align*} \]

\[ x = \_ \_ \text{ ft} \quad ; \quad y = 27 \text{ ft} \]

5) Trapezoidal prisms L and M are similar. The volumes of L and M are 3240 cubic yards and 15 cubic yards respectively. If the parallel sides of M measures 7 yards and 2 yards, what will be the length of the parallel sides of L?

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.