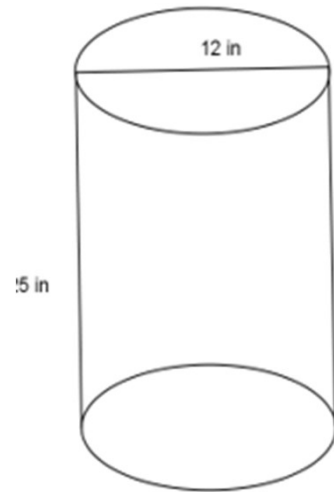# Volumes of Cones & Cylinders

1. Use the diagram to the right to answer the questions.

a) What is the area of the base?

12 in

:5 in

b) What is the height?

c) What is the volume of the right circular cylinder?

2. Use the diagram to find the volume of the right circular cone.

2.3 m

15 m

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Volumes of Cones & Cylinders
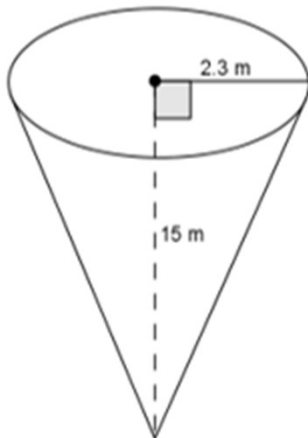
1. Use the diagram to the right to answer the questions.

a) What is the area of the base?

$$A = \pi 6^2$$
$$A = 36\pi$$

The area of the base is 36π in^2.
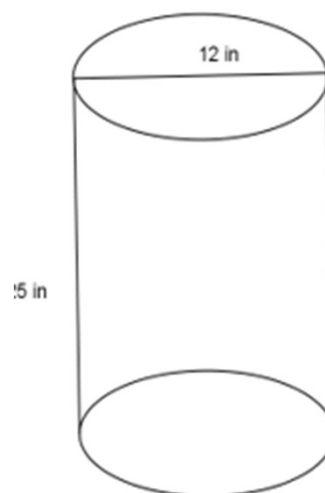
b) What is the height?

The height of the right circular cylinder is 25 in.
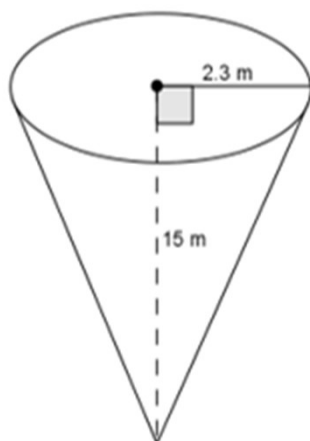
c) What is the volume of the right circular cylinder?

$$V = (36\pi)25$$
$$V = 900\pi$$

The volume of the right circular cylinder is $900\pi \; in^3$.

12 in

5 in

2. Use the diagram to find the volume of the right circular cone.

2.3 m

15 m

$$V = \frac{1}{3}(\pi r^2)h$$

$$V = \frac{1}{3}(\pi 2.3^2)15$$

$$V = 26.45\pi$$

The volume of the right circular cone is $26.45\pi \; m^3$.

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