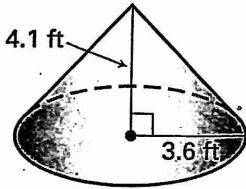


## Finding missing parts of Cones & Pyramids

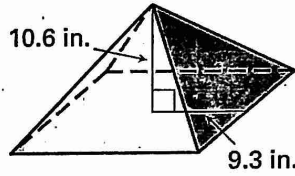
Find the slant height of the cone or pyramid. Round to the nearest tenth.

1.



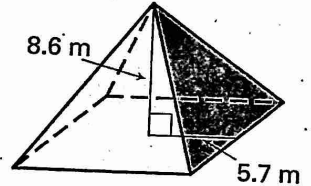
$$\begin{aligned}
 4.1^2 + 3.6^2 &= c^2 \\
 16.81 + 12.96 &= c^2 \\
 29.77 &= c^2 \\
 \boxed{5.5 \text{ ft}}
 \end{aligned}$$

2.



$$\begin{aligned}
 9.3^2 + 10.6^2 &= c^2 \\
 86.49 + 112.36 &= c^2 \\
 198.85 &= c^2 \\
 \boxed{14.1 \text{ in}}
 \end{aligned}$$

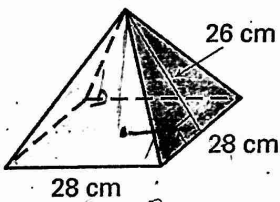
3.



$$\begin{aligned}
 8.6^2 + 5.7^2 &= c^2 \\
 73.96 + 32.49 &= c^2 \\
 106.45 &= c^2 \\
 \boxed{10.3 \text{ m}}
 \end{aligned}$$

Find the height of the regular pyramid. Round to the nearest tenth.

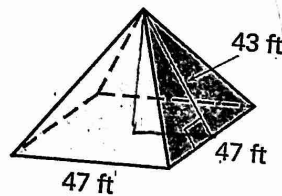
4.



$$\begin{aligned}
 14^2 + b^2 &= 26^2 \\
 196 + b^2 &= 676 \\
 -196 \quad -196 \\
 \hline
 b^2 &= 480 \\
 b &\approx \boxed{21.9 \text{ cm}}
 \end{aligned}$$

21.908

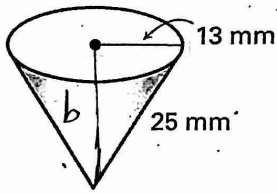
5.



$$\begin{aligned}
 23.5^2 + b^2 &= 43^2 \\
 552.25 + b^2 &= 1849 \\
 -552.25 \quad -552.25 \\
 \hline
 b^2 &= 1296.75 \\
 b &\approx \boxed{36.0 \text{ ft}}
 \end{aligned}$$

Find the height of the cone. Round to the nearest tenth.

6.



$$13^2 + b^2 = 25^2$$

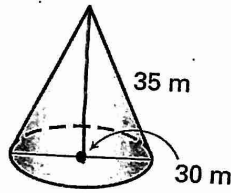
$$169 + b^2 = 625$$

$$\begin{array}{r} -169 \quad -169 \\ \hline \end{array}$$

$$b^2 = 456$$

$$b = 21.4 \text{ mm}$$

7.



$$15^2 + b^2 = 35^2$$

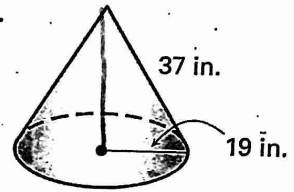
$$225 + b^2 = 1225$$

$$\begin{array}{r} -225 \quad -225 \\ \hline \end{array}$$

$$b^2 = 1000$$

$$b = 31.6 \text{ m}$$

8.



$$19^2 + b^2 = 37^2$$

$$361 + b^2 = 1369$$

$$\begin{array}{r} -361 \quad -361 \\ \hline \end{array}$$

$$b^2 = 1008$$

$$b = 31.7 \text{ in}$$