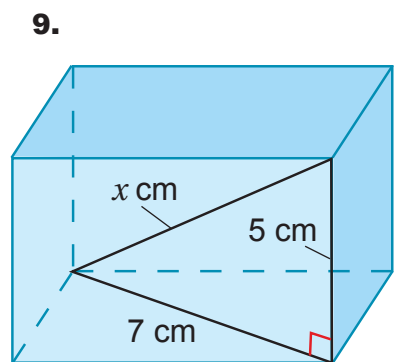
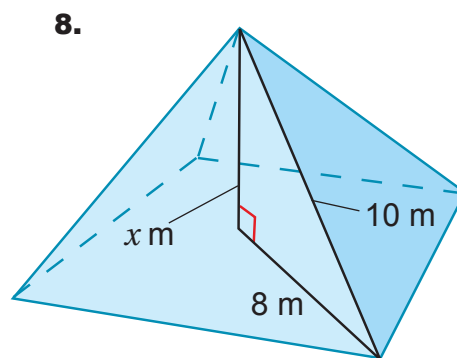
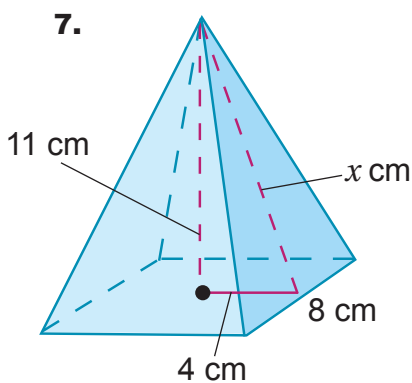
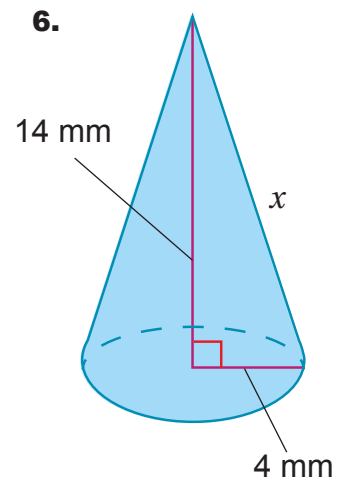
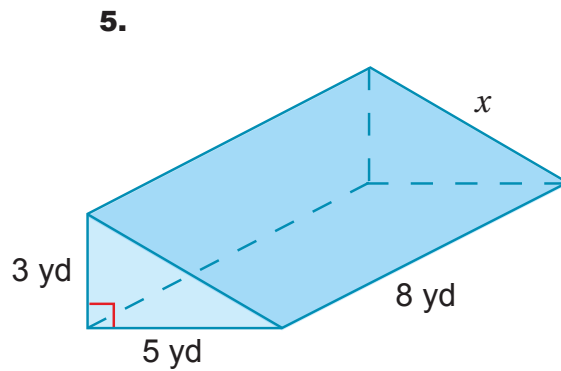
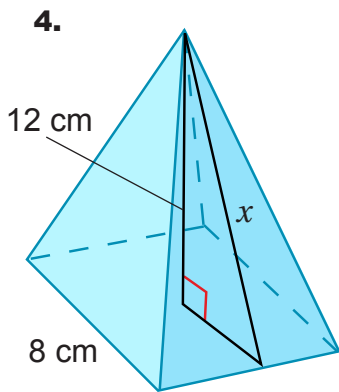
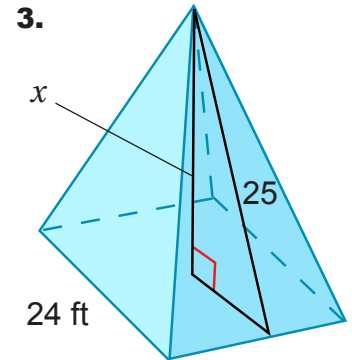
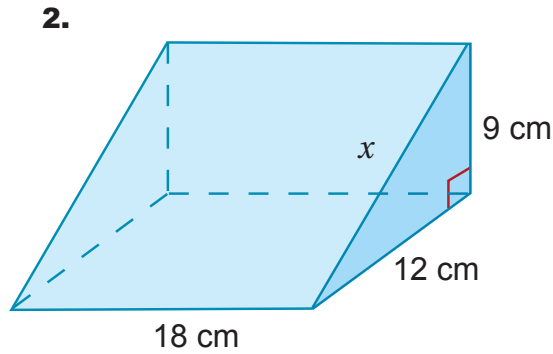
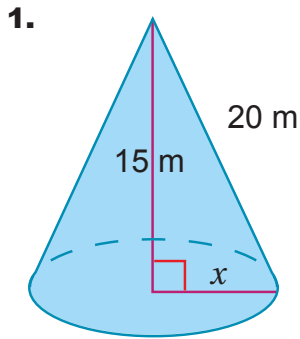


Pythagorean Theorem in 3D

Additional Exercises

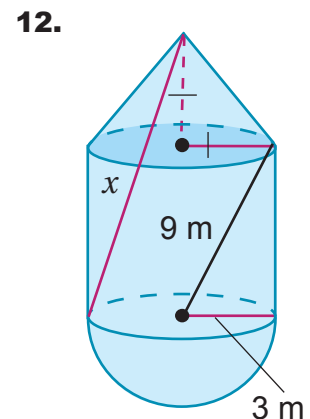
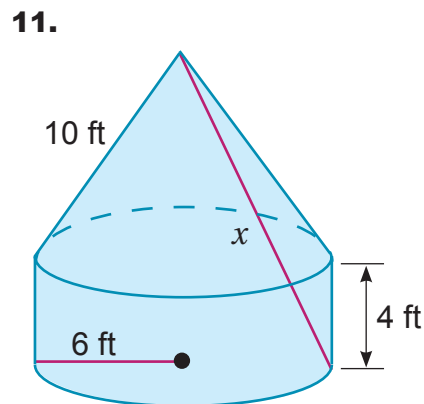
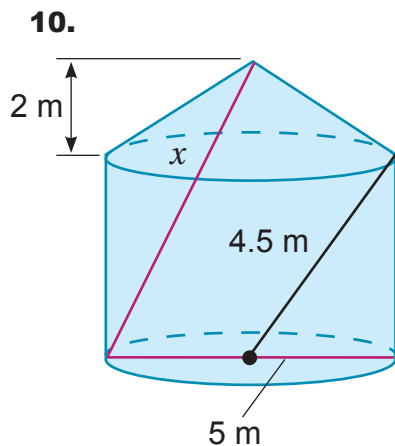
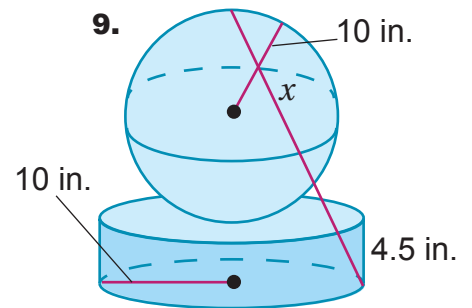
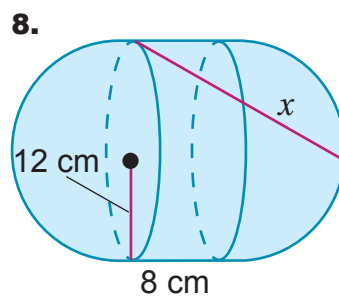
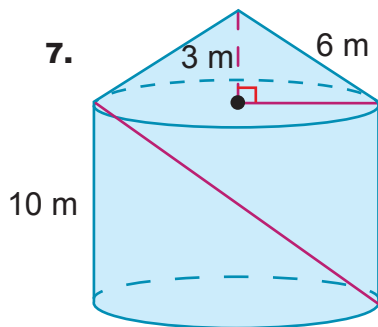
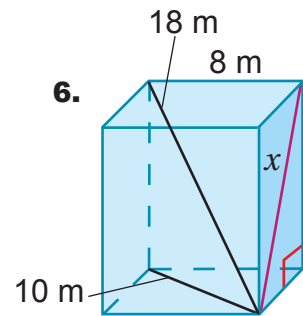
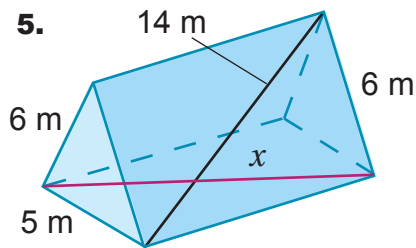
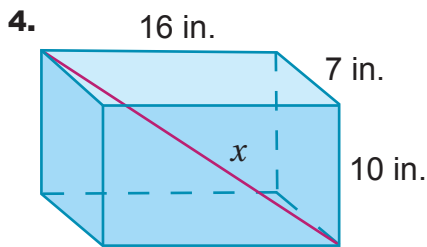
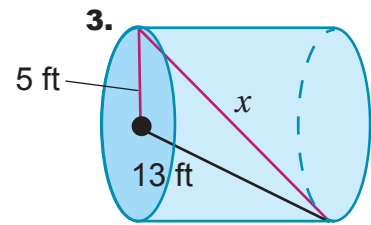
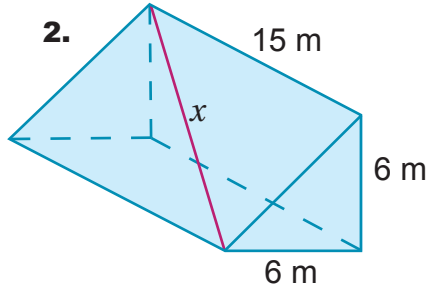
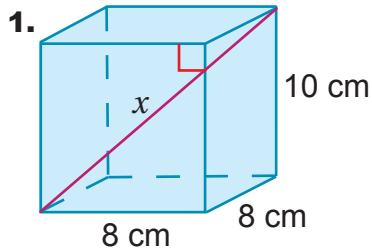
Solve for x . Round to the nearest tenth, if necessary.



Pythagorean Theorem in 3D

Extension

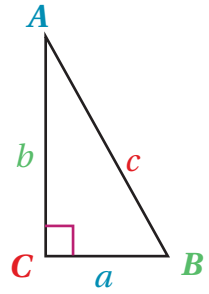
Solve for x . Round to the nearest tenth, if necessary.



Pythagorean Theorem in 3D

Enrichment

If you know one side length and one of the acute angles of a right triangle, you can use trigonometric ratios to find the other side lengths.



$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{a}{c}$$

$$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{b}{c}$$

$$\tan A = \frac{\text{opposite}}{\text{adjacent}} = \frac{a}{b}$$

$$\sin B = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{b}{c}$$

$$\cos B = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{a}{c}$$

$$\tan B = \frac{\text{opposite}}{\text{adjacent}} = \frac{b}{a}$$

Use a calculator and the trigonometric ratios to find x . Round to the nearest hundredth.

