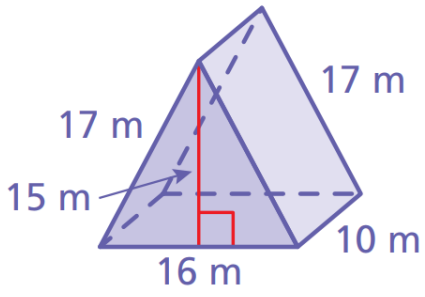
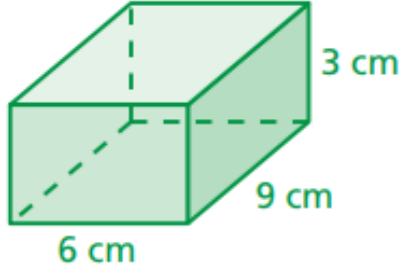
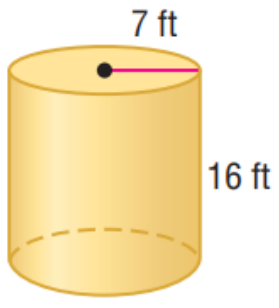
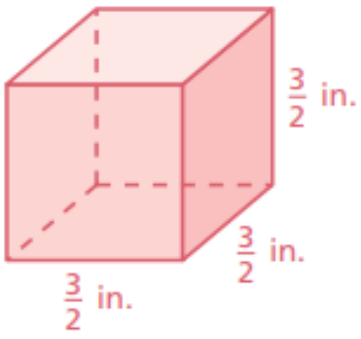
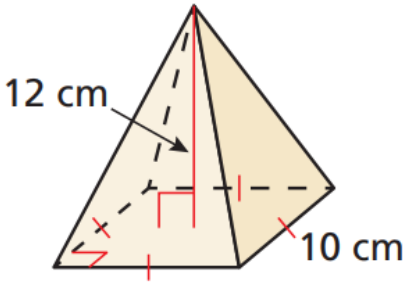
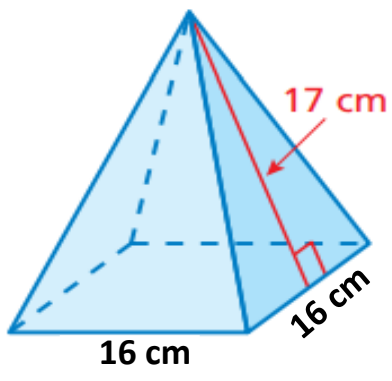
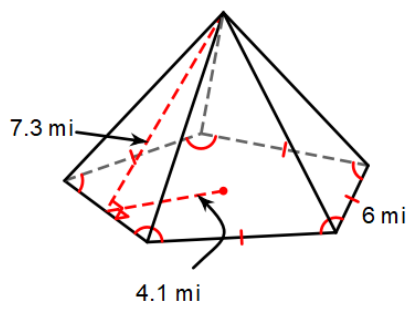
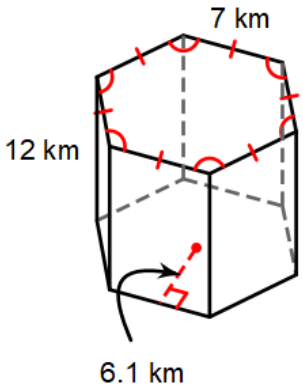
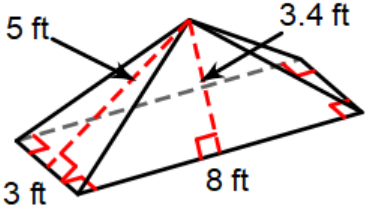


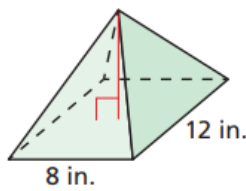
Draw the net. Find the area of the bases, area of the lateral faces, total surface area and volume.

<p>1) This is a triangular prism, so the bases are the triangles.</p> 	<p>2) Use the 9 by 6 face as the base.</p> 	<p>3)</p> 
<p>4)</p> 	<p>5) Note: You will need the Pythagorean theorem to find the slant height.</p> 	<p>6) Note: You will need the Pythagorean theorem to find the height</p> 

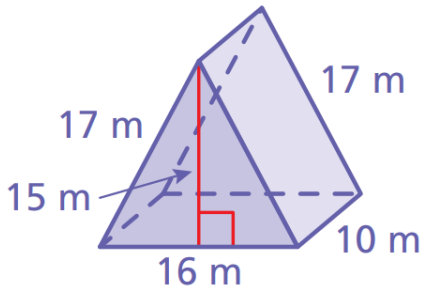
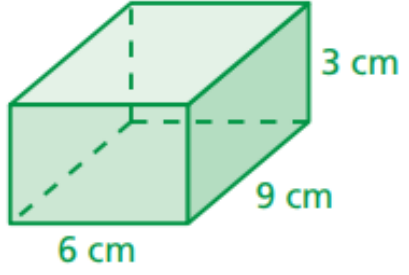
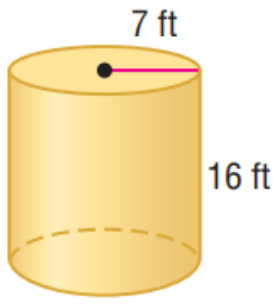
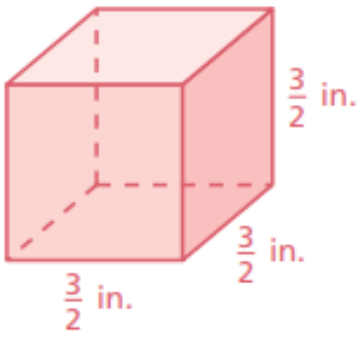
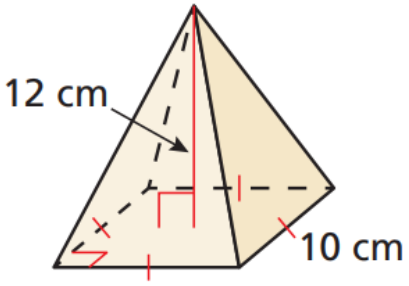
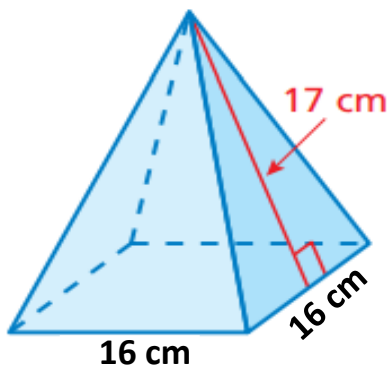
Find the surface area of each of the following. Drawing the net is optional. You **don't** need to find the volume.

<p>7)</p> 	<p>8)</p> 	<p>9)</p> 
---	---	---

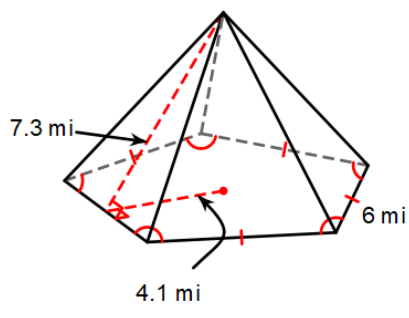
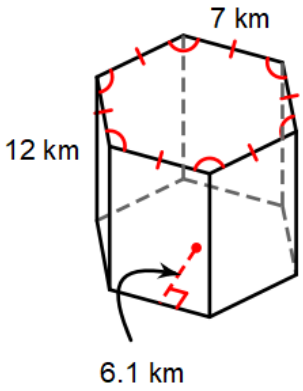
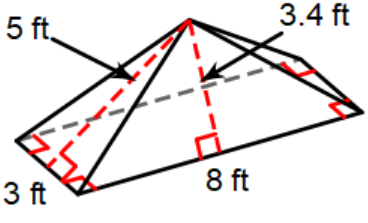
Find the indicated value.

<p>10) Find the height.</p> <p>Volume = 224 in.^3</p> 	<p>11) The volume of a cylinder is $972\pi \text{ cm}^3$. If the radius is 9 cm, find the height.</p> <p>Hint: $V = BH$ $V = \pi r^2 H$</p>	<p>12) The surface area of a cylinder is $130\pi \text{ cm}^2$. If the radius is 5 cm, find the height.</p> <p>Hint: $\text{Surface Area} = 2\pi r^2 + 2\pi rH$</p>
--	--	---

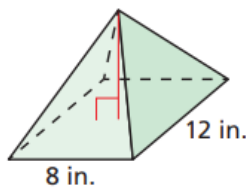
Draw the net. Find the area of the bases, area of the lateral faces, total surface area and volume.

<p>1) This is a triangular prism, so the bases are the triangles.</p> 	<p>2) Use the 9 by 6 face as the base.</p> 	<p>3)</p> 
<p>4)</p> 	<p>5) Note: You will need the Pythagorean theorem to find the slant height.</p> 	<p>6) Note: You will need the Pythagorean theorem to find the height</p> 

Find the surface area of each of the following. Drawing the net is optional. You **don't** need to find the volume.

<p>7)</p> 	<p>8)</p> 	<p>9)</p> 
---	---	---

Find the indicated value.

<p>10) Find the height.</p> <p>Volume = 224 in.^3</p> 	<p>11) The volume of a cylinder is $972\pi \text{ cm}^3$. If the radius is 9 cm, find the height.</p> <p>Hint: $V = BH$ $V = \pi r^2 H$</p>	<p>12) The surface area of a cylinder is $130\pi \text{ cm}^2$. If the radius is 5 cm, find the height.</p> <p>Hint: $\text{Surface Area} = 2\pi r^2 + 2\pi rH$</p>
--	--	---