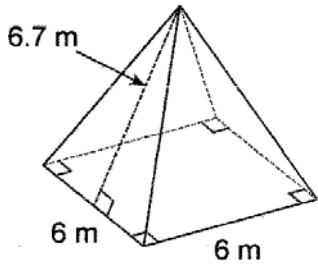


1. Draw a regular square pyramid. Label its *height*, *slant height*, and *base*.

Find the Surface Area.

2.



Base is \_\_\_\_\_

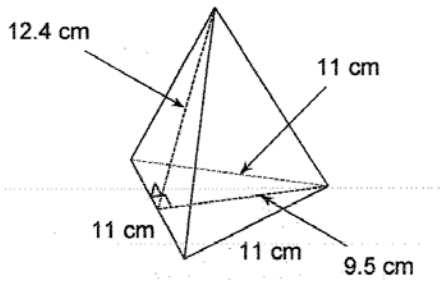
$B_A =$  \_\_\_\_\_

$P_B =$  \_\_\_\_\_

$l =$  \_\_\_\_\_

$SA =$  \_\_\_\_\_

3.



Base is \_\_\_\_\_

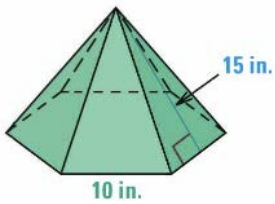
$B_A =$  \_\_\_\_\_

$P_B =$  \_\_\_\_\_

$l =$  \_\_\_\_\_

$SA =$  \_\_\_\_\_

4.



Base is \_\_\_\_\_

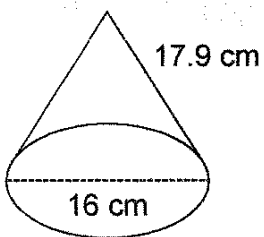
$B_A =$  \_\_\_\_\_

$P_B =$  \_\_\_\_\_

$l =$  \_\_\_\_\_

$SA =$  \_\_\_\_\_

5.



Base is \_\_\_\_\_

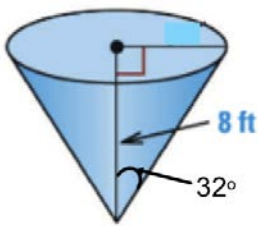
$B_A =$  \_\_\_\_\_

$P_B =$  \_\_\_\_\_

$l =$  \_\_\_\_\_

$SA =$  \_\_\_\_\_

6.



Base is \_\_\_\_\_

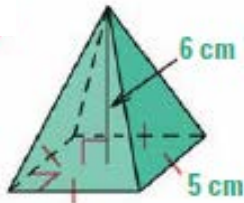
$B_A =$  \_\_\_\_\_

$P_B =$  \_\_\_\_\_

$l =$  \_\_\_\_\_

$SA =$  \_\_\_\_\_

7.



Base is \_\_\_\_\_

$B_A =$  \_\_\_\_\_

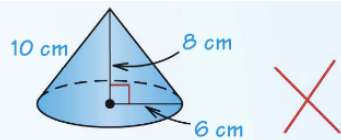
$P_B =$  \_\_\_\_\_

$l =$  \_\_\_\_\_

$SA =$  \_\_\_\_\_

8. **ERROR ANALYSIS:** Describe and correct the error in finding the surface area of the right cone

$$\begin{aligned} S &= \pi(r^2) + \pi r^2 l \\ &= \pi(36) + \pi(36)(10) \\ &= 396\pi \text{ cm}^2 \end{aligned}$$



### Find the missing length

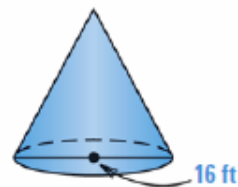
9. **MULTIPLE CHOICE** The surface area of the right cone is  $200\pi$  square feet. What is the slant height of the cone?

(A) 10.5 ft

(B) 17 ft

(C) 23 ft

(D) 24 ft



10. Find the radius of a cone with a surface area of  $24\pi \text{ ft}^2$  and a slant height of 5 ft.

If necessary, round your answers to the nearest thousandth.