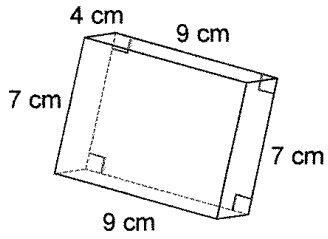1.

4 cm
9 cm
7 cm
7 cm
9 cm

Base is _____

B_A = _____

P_B = _____

h = _____

SA = _____

2.

3 m
9.1 m
8 m

Base is _____

B_A = _____

P_B = _____

h = _____

SA = _____

3.

6 yd
6 yd
2.8 yd
3 yd
4 yd

Base is _____

B_A = _____

P_B = _____

h = _____

SA = _____

4.

3.5 in.
2 in.

Base is _____

B_A = _____

P_B = _____

h = _____

SA = _____

5.

7 ft
8 ft

Base is _____

$B_A =$ _____

$P_B =$ _____

$h =$ _____

$SA =$ _____

6.
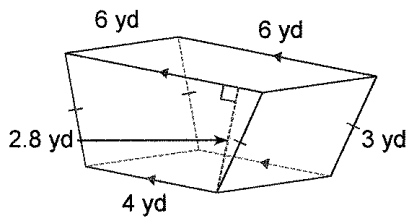

10 cm

6 cm

Base is _____

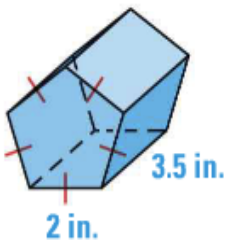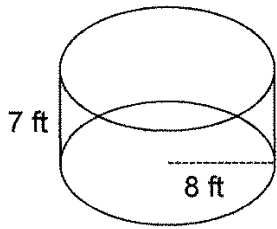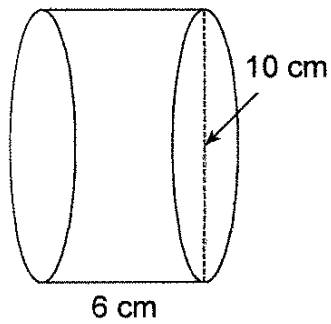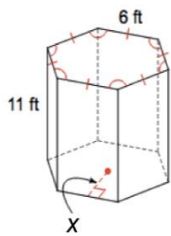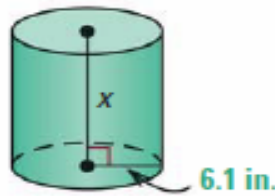$B_A =$ _____

$P_B =$ _____

$h =$ _____

$SA =$ _____

Solving for a length

Solve for _x_ given the surface area _S_ of the right prism or right cylinder.
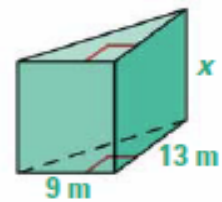**Round your answer to two decimal places.** *(p. 803)*

7.   S = 583.06ft^2

6 ft

11 ft

x

8. $S = 717$ in.^{2}

x

6.1 in.

9. $S = 567$ m^2

x

13 m

9 m

---

10. A cylinder has a surface area of 44π square meters and a radius of 2 meters. Find the height of the cylinder.

---

1) $254cm^2$ 2) $\approx 196.474m^2$ 3) $124yd^2$ 4) $\approx 48.764in^2$ 5) $240\pi \approx 753.98ft^2$ 6)$110\pi \approx 345.58cm^2$ 7) x ≈ 5.196 8) $x \approx 12.61$ 9) $x \approx 11.9$ 10) h = 9m