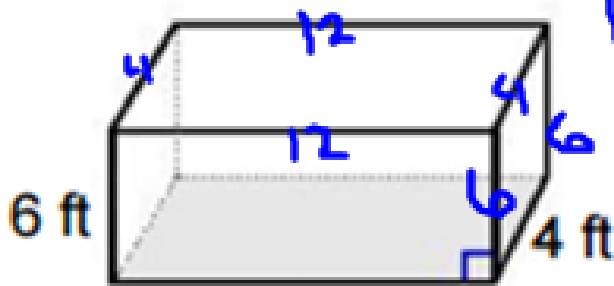


1) Find the surface area and volume of the following 3D solids.

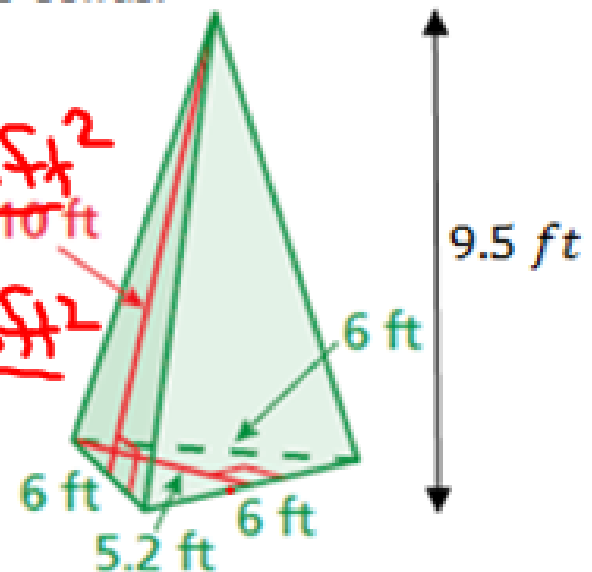
A)



$P = 6 + 6 + 6 = 18 \text{ ft}$ B)

$LA = \frac{1}{2}(18)(10) = 90 \text{ ft}^2$

$B = \frac{1}{2}(6)(5.2) = 15.6 \text{ ft}^2$



A of T+B = $12(4) = 48 \text{ ft}^2(2) = 96 \text{ ft}^2$

A of R+LD = $4(6) = 24 \text{ ft}^2(2) = 48 \text{ ft}^2$

A of F+B = $12(6) = 72 \text{ ft}^2(2) = 144 \text{ ft}^2$

S.A. = 288 ft^2

$SA = 96 + 48 + 144$

$V = 288 \text{ ft}^3$

$V = 12(4)(6)$

$B = 15.6 \text{ ft}^2$

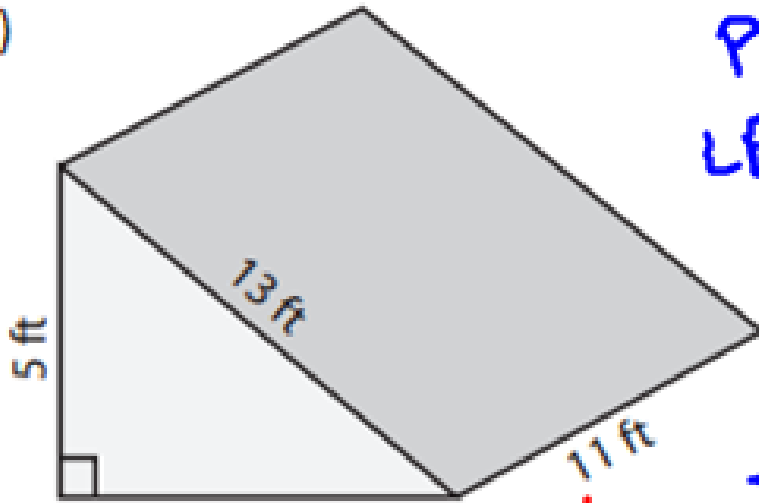
$V = \frac{1}{3}(15.6)(9.5)$

$SA = 90 + 15.6$

S.A. = 105.6 ft^2

$V = 49.4 \text{ ft}^3$

c)

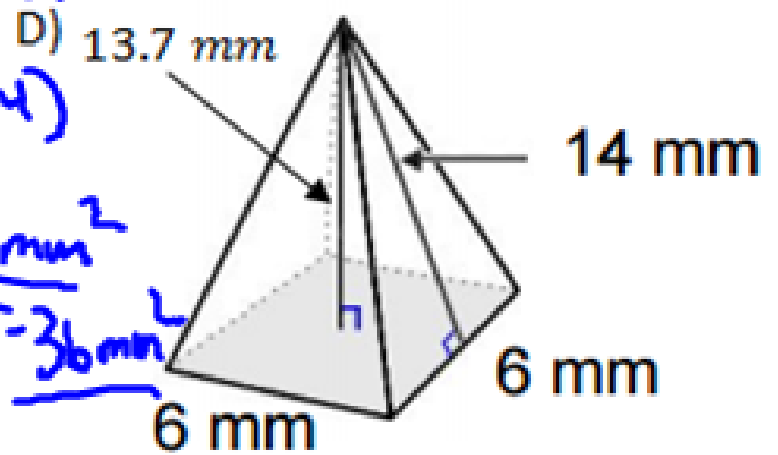


$$P = 6(4) = 24 \text{ mm}$$

$$LA = \frac{1}{2}(24)(14)$$

$$LA = \frac{168 \text{ mm}^2}{}$$

$$B = 6(6) = 36 \text{ mm}^2$$



$$SA = 168 + 36 = 204 \text{ mm}^2$$

$$B = \frac{1}{2}(5)(12) = 30 \text{ ft}^2 \times 2$$

$$A_{\text{of } \square} = 13 \cdot 11 = 143 \text{ ft}^2$$

$$A_{\text{of } L \square} = 5 \cdot 11 = 55 \text{ ft}^2$$

$$A_{\text{of } B \square} = 12 \cdot 11 = 132 \text{ ft}^2$$

S.A. = _____

$$SA = 30 + 30 + 143 + 55 + 132 = 390 \text{ ft}^2$$

$$V = \frac{330 \text{ ft}^3}{}$$

$$V = 30(11)$$

$$S.A. = 204 \text{ mm}^2$$

$$B = 36 \text{ mm}^2$$

$$V = \frac{1}{3}(36)(13.7)$$

$$V = 164.4 \text{ mm}^3$$