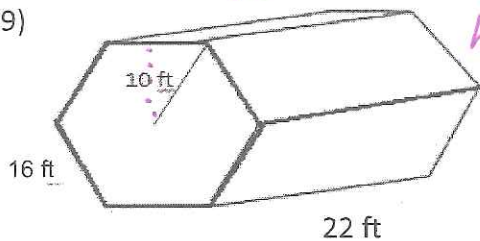


9)



$$h^2 + 8^2 = 10^2$$

$$h^2 + 64 = 100$$

$$h^2 = 36$$

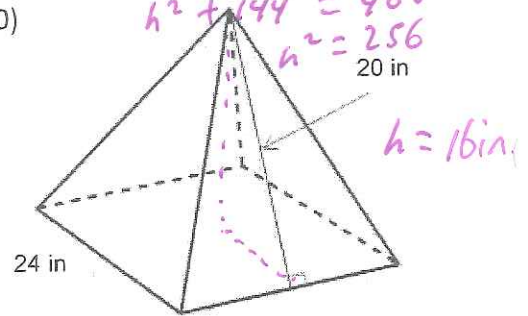
$$h = 6 \text{ ft}$$

$$S.A. = 96 \text{ ft} \cdot 22 \text{ ft} + 2 \left( 6 \cdot \frac{1}{2} \cdot 16 \text{ ft} \cdot 6 \text{ ft} \right)$$

$$S.A. = 2,112 \text{ ft}^2 + 576 \text{ ft}^2$$

$$V = 6 \left( \frac{1}{2} \cdot 16 \text{ ft} \cdot 6 \text{ ft} \right) \cdot 22 \text{ ft}$$

10)



$$h^2 + 12^2 = 20^2$$

$$h^2 + 144 = 400$$

$$h^2 = 256$$

$$h = 16 \text{ in}$$

$$S.A. = \frac{1}{2} \cdot 96 \text{ in} \cdot 20 \text{ in} + 24 \text{ in} \cdot 24 \text{ in}$$

$$S.A. = 960 \text{ in}^2 + 576 \text{ in}^2$$

$$V = \frac{1}{3} \cdot 24 \text{ in} \cdot 24 \text{ in} \cdot 16 \text{ in}$$

#9 S.A. answer:

$$2,688 \text{ ft}^2$$

#10 S.A. answer:

$$1,536 \text{ in}^2$$

#9 Vol. answer:

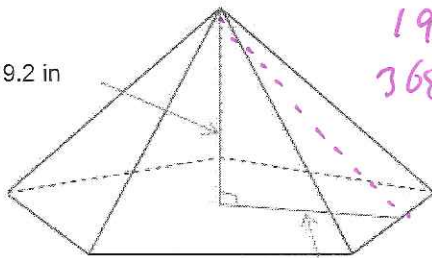
$$6,336 \text{ ft}^3$$

#10 Vol. answer:

$$3,072 \text{ in}^3$$

11)

19.2 in



$$19.2^2 + 14.4^2 = l^2$$

$$368.64 + 207.36 = l^2$$

$$576 = l^2$$

$$l = 24 \text{ in}$$

$$S.A. = \frac{1}{2} \cdot 150 \text{ in} \cdot 24 \text{ in} + 5 \left( \frac{1}{2} \cdot 30 \text{ in} \cdot 14.4 \text{ in} \right)$$

$$S.A. = 6800 \text{ in}^2 + 216 \text{ in}^2$$

$$V = \frac{1}{3} \cdot 5 \left( \frac{1}{2} \cdot 30 \text{ in} \cdot 14.4 \text{ in} \right) \cdot 19.2 \text{ in}$$

#11 S.A. answer:

$$7,016 \text{ in}^2$$

#12 S.A. answer:

$$216 \pi \text{ cm}^2$$

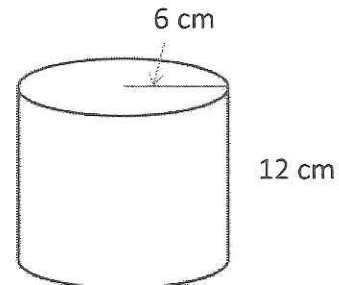
#11 Vol. answer:

$$6,912 \text{ in}^3$$

#12 Vol. answer:

$$432 \pi \text{ cm}^3$$

12)



$$S.A. = 2\pi(6 \text{ cm})(12 \text{ cm}) + 2\pi(6 \text{ cm})^2$$

$$S.A. = 144\pi \text{ cm}^2 + 72\pi \text{ cm}^2$$

$$V = \pi(6 \text{ cm})^2 \cdot 12 \text{ cm}$$