

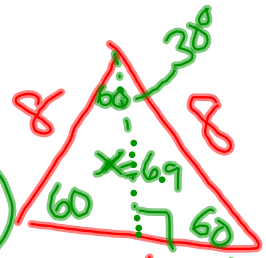
$$L = 24(12) = 288 \text{ cm}^2$$

$$S = L + 2R$$

$$S = 288 + 2\left(\frac{1}{2}\right)(8)(6.9)$$

$$S = 288 + 55.2$$

$$S = 343.2 \text{ cm}^2$$



$$x \tan 36 = 4$$

$$\tan 36 = \frac{4}{x}$$

$$x = 6.9$$

Right pyramid

$$L = \frac{1}{2} P l$$

$$= \frac{1}{2} (36)(19)$$

$$= 342 \text{ cm}^2$$

22. left Pyramid

square pyramid

$$L = \frac{1}{2} P l$$

$$L = \frac{1}{2} (36)(15)$$

$$L = 270 \text{ cm}^2$$

$$L = P h$$

$$= 36(9)$$

$$= 324 \text{ cm}^2$$

$$270 + 324 + 342 = 936 \text{ cm}^2$$

0-3+
4-5+
6

10-6 Volume of prisms + cylinders

Volume: space inside a 3D figure.

Volume of a prism with base area B and height h is
 $V = Bh$.

- rt. rect. prism: $V = lwh$
- cube: $V = s^3$

Volume of a cube with
edge length 5 cm.

$$V = s^3$$

$$V = 5^3$$

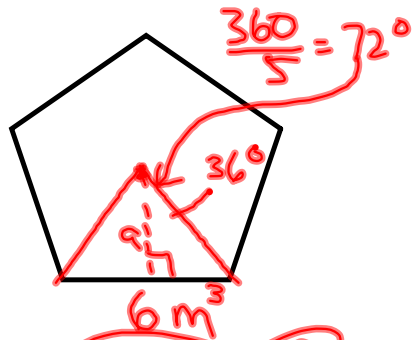
$$V = 125 \text{ cm}^3$$

Find the volume of a rt. pentagonal prism with base length 6 m + height 7m.

$$V = Bh$$

$$V = 61.95 \cdot 7$$

$$V = 433.65 \text{ m}^3$$



$$B = \frac{1}{2} a P$$

$$B = \frac{1}{2} (6) (30)$$

$$B = 61.95$$

~~$$\tan 36 = \frac{3}{a}$$~~

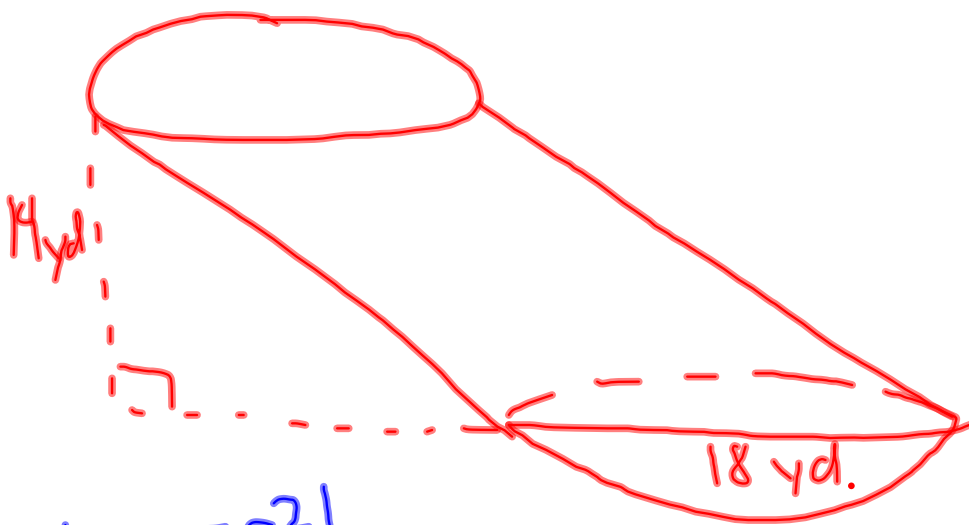
$$a \tan 36 = 3$$

$$\frac{a \tan 36}{\tan 36} = \frac{3}{\tan 36}$$

$$a = 4.13$$

Volume of a cylinder with radius r and height h is

$$V = \pi r^2 h$$



$$V = \pi r^2 h$$

$$V = \pi (9)^2 (14)$$

$$V = 1134\pi \text{ yd}^3$$

P. 701
2-24, skip 9, 10, ~~11~~ 20, 21