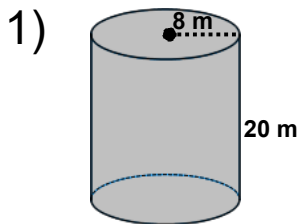


Pré-Quiz

nom: _____

Formules:			
$A = bh$	$A = \pi r^2$	$A = 4\pi r^2$	$V = \frac{4\pi r^3}{3}$
$A = \frac{bh}{2}$	$A = 2\pi r^2 + 2\pi rh$	$A = \pi r^2 + \pi rl$	$V = \frac{A_{base} \cdot h}{3}$
$c^2 = a^2 + b^2$	$C = 2\pi r$		$V = A_{base} \cdot h$

Trouve l'aire de la surface ET la volume des figures suivantes:



$$A = 2\pi r^2 + 2\pi rh$$

$$A = 2\pi(8)^2 + 2\pi(8)(20)$$

$$A = 402,1 + 1005,3$$

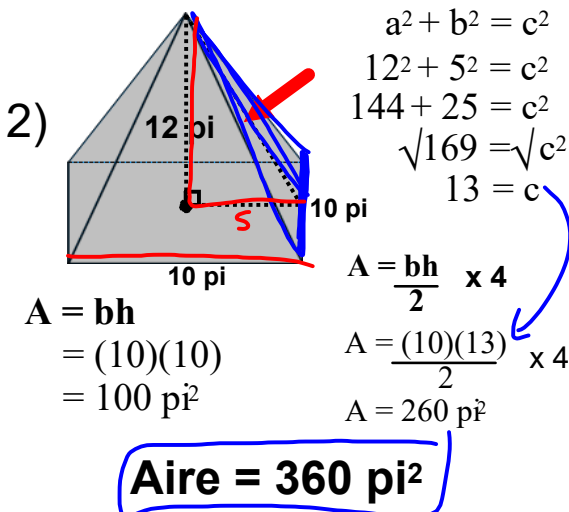
$$A = 1407,4 \text{ m}^2$$

$$V = A_{base} \cdot h$$

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

$$V = \pi(8)^2 \times (20)$$

$$V = 4021,2 \text{ m}^3$$

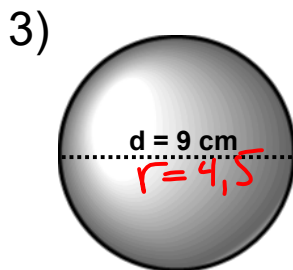


$$V = \frac{A_{base} \cdot h}{3}$$

$$V = \frac{bh \times h}{3}$$

$$V = \frac{(10)(10)(12)}{3}$$

$$V = 400 \pi^3$$



$$A = 4\pi r^2$$

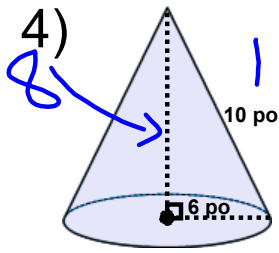
$$A = 4\pi(4,5)^2$$

$$A = 254,5 \text{ cm}^2$$

$$V = \frac{4\pi r^3}{3}$$

$$V = \frac{4\pi(4,5)^3}{3}$$

$$V = 381,7 \text{ cm}^3$$



$$A = \pi r^2 + \pi r l$$

$$A = \pi(6)^2 + \pi(6)(10)$$

$$A = 113,1 + 188,5$$

$$A = 301,6 \text{ po}^2$$

$$V = \frac{A_{\text{base}} \cdot h}{3}$$

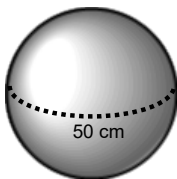
$$V = \frac{\pi r^2 \times h}{3}$$

$$V = \frac{\pi(6)^2 (8)}{3}$$

$$V = 301,6 \text{ po}^3$$

Utilise les informations données pour trouver la dimension qui manque et résous la problème..

5) **Sphère:** Circonférence est 50 cm. Quelle est l'aire de la surface?



$$C = 2\pi r$$

$$\frac{50}{6,28} = \frac{6,28r}{6,28}$$

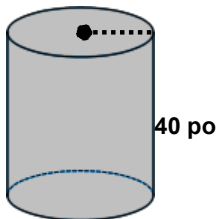
$$r = 8 \text{ cm}$$

$$A = 4\pi r^2$$

$$A = 4\pi(8)^2$$

$$A = 804,2 \text{ cm}^2$$

6) **Cylindre:** L'aire de la surface courbe est 500 m². Quelle est le volume?



$$A = 2\pi r^2 + 2\pi r h$$

$$500 = 2\pi r(40)$$

$$\frac{500}{251,3} = \frac{251,3r}{251,3}$$

$$r = 2 \text{ po}$$

$$V = A_{\text{base}} \cdot h$$

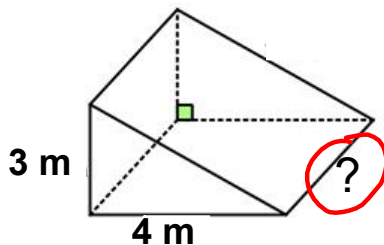
$$V = \pi r^2 \times h$$

$$V = \pi(2)^2 \times (40)$$

$$V = 502,7 \text{ po}^3$$

497,4 po³ (si tu utilise tous les décimaux)

7) **Prisme à base triangulaire:** Le volume est 360 m³. Quelle est le hauteur?



$$V = A_{\text{base}} \cdot h$$

$$V = \frac{bh}{2} \times h$$

$$360 = \frac{(3)(4)}{2} \times h$$

$$\frac{360}{6} = \frac{6h}{6}$$

$$h = 60 \text{ m}$$