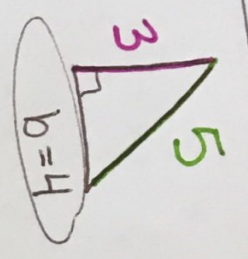
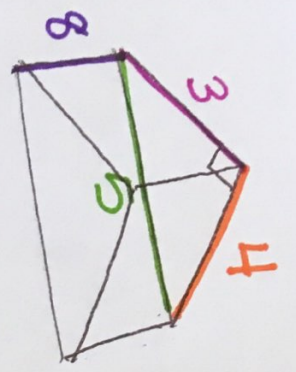


Surface Area



$$a^2 + b^2 = c^2$$

$$3^2 + 4^2 = 5^2$$

$$9 + 16 = 25$$

$$\pm \sqrt{b^2} = \pm \sqrt{16}$$

$$b = \pm 4$$

$$A = \frac{1}{2}bh = \frac{1}{2}(3)(4) = 6$$

$$A = 5(8) = 40$$

$$A = 3(8) = 24$$

$$A = 4(8) = 32$$

$$SA = 32 + 24 + 40 + 2(6) = \boxed{108 \text{ units}^2}$$

Volume

V = area of base \times height

$$A = \frac{1}{2}bh = \frac{1}{2}(3)(4) = 6$$

$$H = 8$$

$$V = 6(8) = \boxed{48 \text{ units}^3}$$

Surface Area

use $\pi = 3.14$

$$A = \pi r^2 = \pi (5)^2 = 78.5$$

$$A = 2\pi r = 8(2\pi)(5) = 31.4(8) = 251.2$$

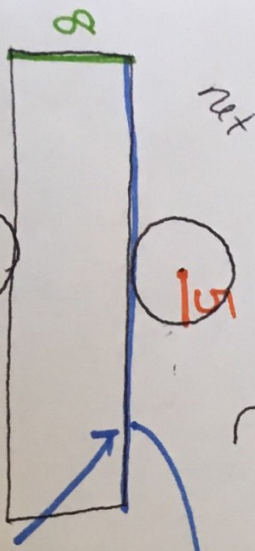
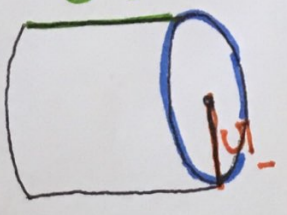
$$SA = 2(78.5) + 251.2 = \boxed{408.2 \text{ feet}^2}$$

Volume

$$V = 78.5(8)$$

$$= \boxed{628 \text{ feet}^3}$$

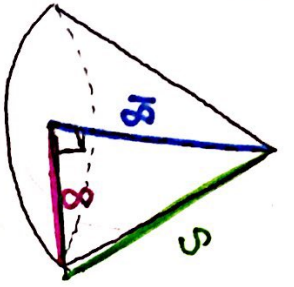
unit



length is the

circumference of the circle

c)



Volume

$V = \text{Area of base} \times \text{Height}$

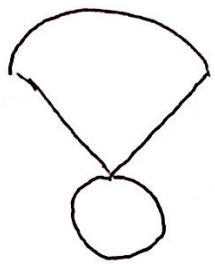
$$A = \pi r^2 = \pi (8)^2 = 200.96$$

$$H = 18$$

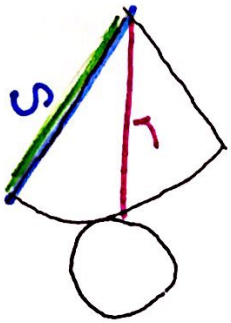
$$V = 200.96(18) = 3617.28 \text{ in}^2$$

$$V = 1205.76 \text{ in}^3$$

must divide
num by 3
or
you have
a cone



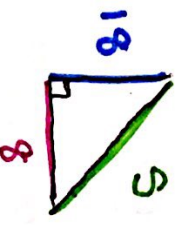
Surface Area



$$\begin{cases} A = 200.96 \\ A = \pi (r)(s) = \pi (8)(19.70) \\ = 494.61 \end{cases}$$

$$SA = 200.96 + 494.61$$

$$= 695.57 \text{ in}^2$$



$$18^2 + 8^2 = s^2$$

$$\sqrt{388} = \sqrt{s^2}$$

$$s = 19.70$$