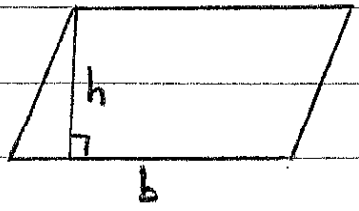
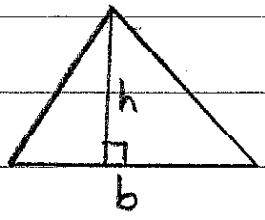
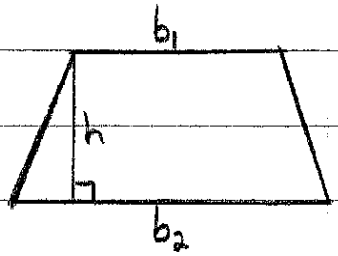
Area of a Parallelogram, Triangle, and Trapezoid



$A = bh$



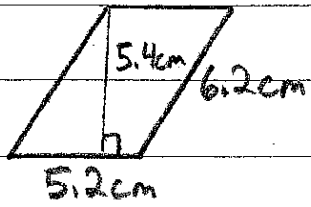
$A = \frac{1}{2}bh$



$A = \frac{1}{2}h(b_1 + b_2)$

Find the area. Round to the nearest tenth if necessary.

1)

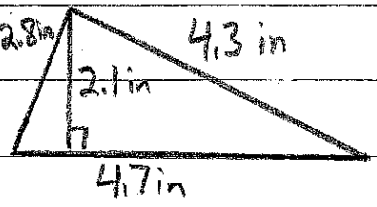


$A = bh$

$A = (5.2)(5.4)$

$\boxed{A = 28.1\ cm^2}$

2)

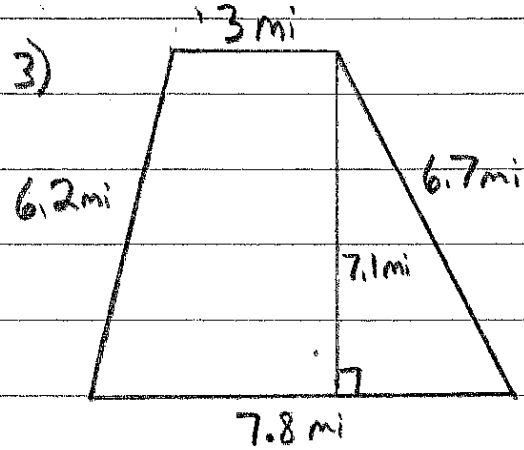


$A = \frac{1}{2}bh$

$A = \frac{1}{2}(4.7)(2.1)$

$\boxed{A = 4.9\ in^2}$

3)



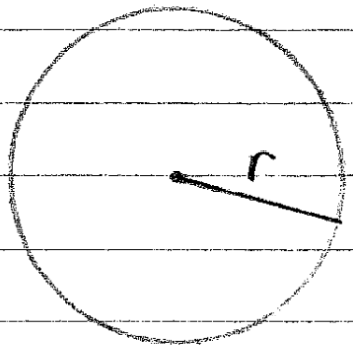
$A = \frac{1}{2}h(b_1 + b_2)$

$A = \frac{1}{2}(7.1)(3 + 7.8)$

$A = \frac{1}{2}(7.1)(10.8)$

$\boxed{A = 38.3\ mi^2}$

Area and Circumference of a Circle



r = radius, d = diameter

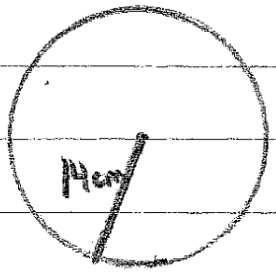
$A = \pi r^2$

$C = 2\pi r$ or $C = \pi d$

$\pi = 3.14$ or $\pi = \frac{22}{7}$

Find the area and circumference. Round to the nearest tenth if necessary.

1)



$A = \pi r^2$

$A = (3.14)(14^2)$

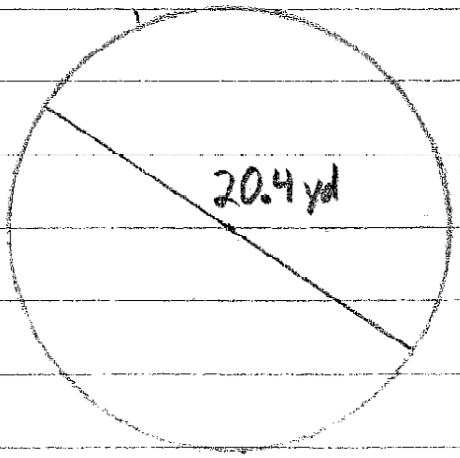
$\boxed{A = 615.4\ cm^2}$

$C = 2\pi r$

$C = \frac{2}{1} \cdot \frac{22}{7} \cdot \frac{14}{1}$

$\boxed{C = 88cm}$

2)



$A = \pi r^2$

$A = (3.14)(10.2^2)$

$\boxed{A = 326.7 yd^2}$

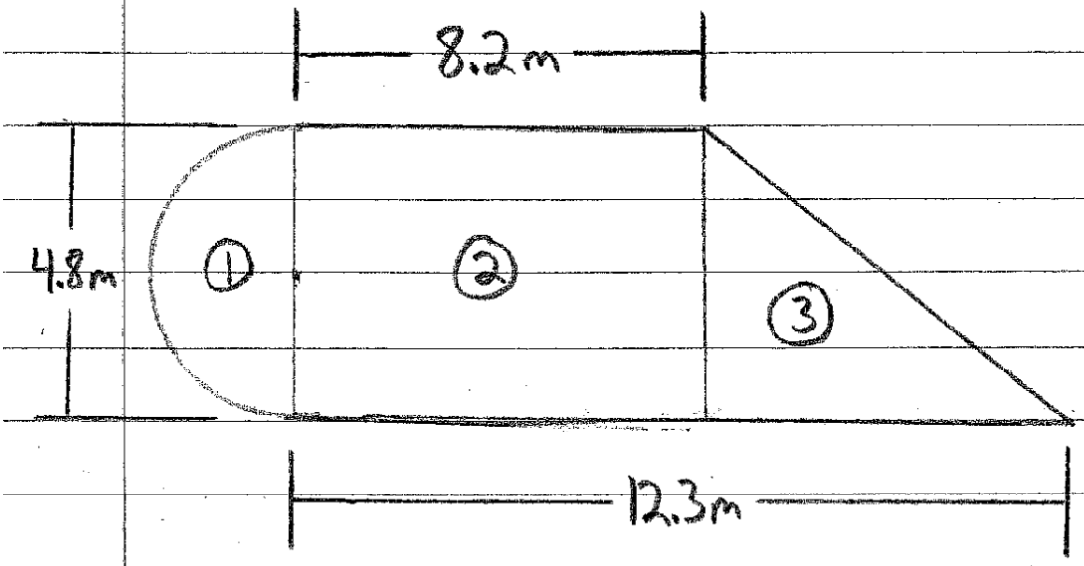
$C = \pi d$

$C = (3.14)(20.4)$

$\boxed{C = 64.1\ yd}$

Area of a Complex Figure

Find the area. Round to the nearest tenth.



$A_1 = \frac{1}{2}\pi r^2$ $A_2 = LW$ $A_3 = \frac{1}{2}bh$

$A_1 = \frac{1}{2}(3.14)(2.4^2)$ $A_2 = (4.8)(8.2)$ $A_3 = \frac{1}{2}(4.1)(4.8)$

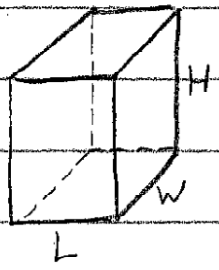
$A_1 = 9.0432 m^2$ $A_2 = 39.36 m^2$ $A_3 = 9.84$

$A_T = A_1 + A_2 + A_3$

$A_T = 9.0432 + 39.36 + 9.84$

$\boxed{A_T = 58.2 m^2}$

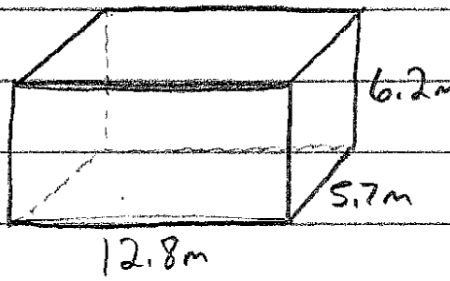
Volume of a Rectangular Prism and Cylinder



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

Find the volume. Round to the nearest tenth.

1)

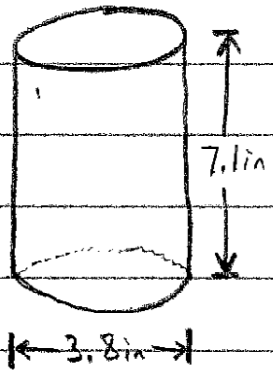


$V = LWH$

$V = (12.8)(5.7)(6.2)$

$\boxed{V = 452.4\ m^3}$

2)

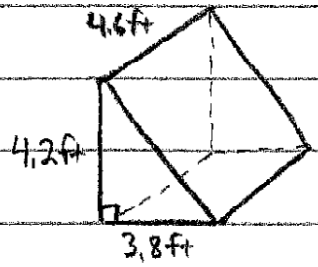


$V = \pi r^2 h$

$V = (3.14)(1.9^2)(7.1)$

$\boxed{V = 80.5\ in^2}$

3)



$V = \left(\frac{1}{2}bh\right)H$

$V = \frac{1}{2}(3.8)(4.2)(4.6)$

$\boxed{V = 36.7\ ft^3}$