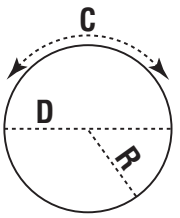
Geometry Formulas

A = Area **A1** = Surface area of solids **V** = Volume
C = Circumference π = Pi (3.14159)

Circle

$A = \pi \bullet R \bullet R$ $C = \pi \bullet D$

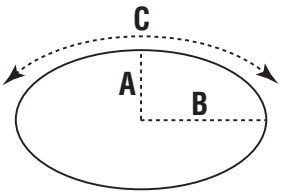
$R = D / 2$ $D = 2 \bullet R$



Ellipse

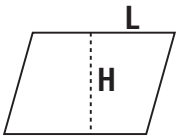
$A = \pi \bullet A \bullet B$

$C = 2 \bullet \pi \bullet \sqrt{\frac{A^2 + B^2}{2}}$



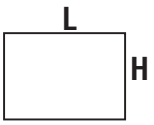
Parallelogram

$A = H \bullet L$



Rectangle

$A = W \bullet L$



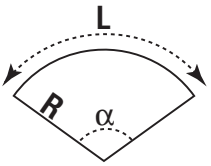
Sector of Circle

$A = (\pi \bullet R^2 \bullet \alpha) / 360$

$L = (\pi \bullet R \bullet \alpha) / 180$

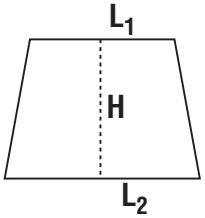
$\alpha = (L \bullet 180) / (\pi \bullet R)$

$R = (L \bullet 180) / (\pi \bullet \alpha)$



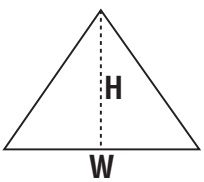
Trapezoid

$A = H \bullet (L_1 + L_2) / 2$



Triangle

$A = (W \bullet H) / 2$

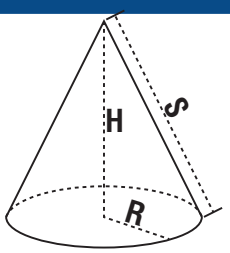


A = Area **A1** = Surface area of solids **V** = Volume
C = Circumference π = Pi (3.14159)

CONE

$A1 = (\pi \bullet R \bullet S) + (\pi \bullet R^2)$

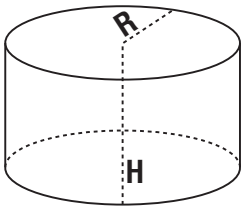
$V = (\pi \bullet R^2 \bullet H) / 3$



CYLINDER

$A1 = (2 \bullet \pi \bullet R^2) + (2 \bullet \pi \bullet R \bullet H)$

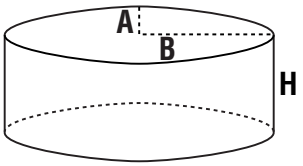
$V = \pi \bullet R^2 \bullet H$



ELLIPTICAL TANKS

$$A1 = 2 \bullet \pi \bullet \sqrt{\frac{A^2 + B^2}{2}} \bullet H = (2 \bullet \pi A \bullet B)$$

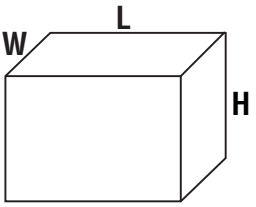
$V = \pi \bullet A \bullet B \bullet H$



RECTANGULAR SOLID

$A1 = 2 \bullet [(W \bullet L) + (L \bullet H) + (H \bullet W)]$

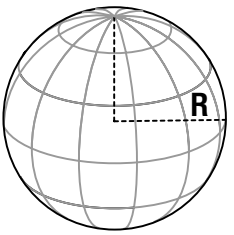
$V = W \bullet L \bullet H$



SPHERE

$A1 = 6 \bullet \pi \bullet R^2$

$V = (4 \bullet \pi \bullet R^3) / 3$



CAPACITY IN GALLONS

For the above contains, capacity in gallons (**G**) is:

$G = (V / 231)$; when V is in cubic inches

$G = (V \bullet 7.48)$; when V is in cubic feet