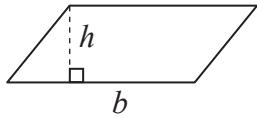


Formula Sheet

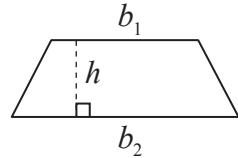
Note to Student: You may use these formulas throughout this entire test. Feel free to use this Formula Sheet as needed during your testing time.

Parallelogram



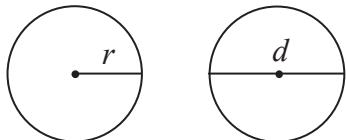
$$\text{Area } A = bh$$

Trapezoid



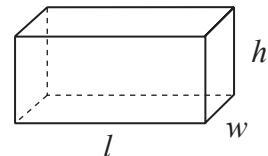
$$\text{Area } A = \frac{1}{2}h(b_1 + b_2)$$

Circle



$$\begin{aligned}\text{Circumference } C &= 2\pi r \\ C &= \pi d \\ \text{Area } A &= \pi r^2\end{aligned}$$

Rectangular Solid



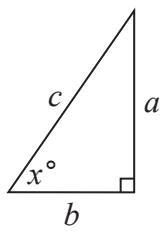
$$\begin{aligned}\text{Volume } V &= lwh \\ \text{Surface Area } SA &= 2lw + 2lh + 2hw\end{aligned}$$

Pythagorean Theorem

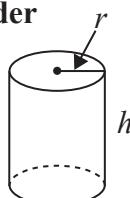
$$a^2 + b^2 = c^2$$

Trigonometric Ratios

$$\begin{aligned}\sin x &= \frac{a}{c} \\ \cos x &= \frac{b}{c} \\ \tan x &= \frac{a}{b}\end{aligned}$$

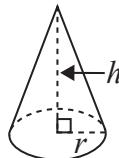


Cylinder



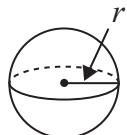
$$\text{Volume } V = \pi r^2 h$$

Cone



$$\text{Volume } V = \frac{1}{3}\pi r^2 h$$

Sphere



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

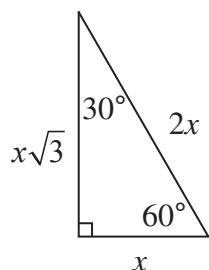
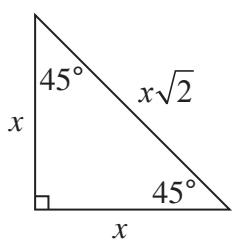
Permutations

$${}_n P_k = \frac{n!}{(n-k)!}$$

Combinations

$${}_n C_k = \frac{n!}{k!(n-k)!}$$

Special Right Triangles



Temperature Formulas

$${}^{\circ}\text{F} = \frac{9}{5}\text{C} + 32$$

$${}^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$$