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ET 112 Formula Sheet

Geometry

Volume of a Cylinder: $V = \pi r^2 h$

Volume of a Sphere: $V = \frac{4}{3} \pi r^3$

Unit Conversions

U.S. and Metric Measurements

1 m = 100 cm

1 inch = 2.54 cm

1 mi = 5,280 ft or 1 mi = 1,760 yd

1 km = 1,000 m

1 g = 1,000 mg

1 lb = 16 oz

Graphing Linear Equations

Point-Slope Form: $y - y_1 = m(x - x_1)$

Quadratic Equations

Quadratic formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Trigonometry

Arc length: $s = r\theta$

Area of a Sector: $A = \frac{1}{2} r^2 \theta$

