Mathematics Reference Sheet

for use with TASC Test Forms G, H, and I, and Readiness 4 and 5

Volume

Cylinder:	V =

Pyramid:

Cone:

Sphere:

V = volume r = radius h = height B = area of base

 $\pi r^2 h$

 $V = \frac{1}{3}Bh$

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

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

Coordinate Geometry

Slope: $m = \frac{y_2 - y_1}{x_2 - x_1}, x_2 \neq x_1$

Special Factoring

 $a^{2} - b^{2} = (a - b)(a + b)$ $a^{2} + 2ab + b^{2} = (a + b)^{2}$ $a^{2} - 2ab + b^{2} = (a - b)^{2}$

Quadratic Formula

For
$$ax^2 + bx + c = 0$$
,
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Interest

Simple interest Formula: I = prt

p = principal r = annual interest rate t = time in yearsI = Interest

Pythagorean Theorem

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

Central Angle



$$m \angle AOB = m \widehat{AB}$$

Inscribed Angle





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