

MATH 100 FORMULAS

Must memorize for Tests and Final Exam

Pythagorean Theorem (Sections 15.8 and 19.3) $a^2 + b^2 = c^2$

Uniform Motion (Sections 16.7 and 19.3) $d = rt$

Rate of Work (Sections 16.7 and 19.3) $\frac{1}{t_1} + \frac{1}{t_2} = \frac{1}{t}$

Quadratic Formula (Section 19.1) $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Vertex of a Parabola (Section 19.2) $x = -\frac{b}{2a}$

Distance (Section 19.4) $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Midpoint (Section 19.4) $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$