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)
\[ \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) \]