College Algebra Formula Sheet Semester 1

Slope: $\quad m = \dfrac{y_2 - y_1}{x_2 - x_1}$

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

Slope Intercept: $\quad y = mx + b$

Vertex form: $\quad y = a(x - h)^2 + k$

The x-value of the vertex: $\quad x = \dfrac{-b}{2a}$

Quadratic Standard Form: $\quad y = ax^2 + bx + c$

Quadratic Formula: $\quad x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$