

## Pre-Calculus Midterm Exam Formula Sheet

$$|a| = \begin{cases} a, & \text{if } a \geq 0 \\ -a, & \text{if } a < 0. \end{cases}$$

$$\frac{a+b}{2}$$

$$|a-b|$$

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

$$D = b^2 - 4ac$$

$$h(t) = -16t^2 + v_0t + h_0$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$y - y_1 = m(x - x_1)$$

$$Ax + By = C$$

$$Ax + By + C = 0$$

$$y = mx + b$$

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