Math 1100 (Online)
Formula Sheet for Exams

Here are some formulas that may prove to be useful to you.

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

$$(x_m, y_m) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

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

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

$$y = mx + b$$

$$Ax + By = C$$

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

$$\frac{\Delta y}{\Delta x} = \frac{f(x_2) - f(x_1)}{x_2 - x_1}$$

$$x = -\frac{b}{2a}$$

$$A(t) = P\left(1 + \frac{r}{n}\right)^{n \cdot t}$$

$$A(t) = Pe^{r \cdot t}$$

$$A(t) = A_0\left(\frac{1}{2}\right)^{\frac{t}{T}}$$

$$\log_b(M) = \frac{\log_n(M)}{\log_n(b)}$$