

Florida Advanced Course Test (FACT) College Algebra Reference Sheet

Formulas

Forms of Linear Equations

$$y = mx + b$$

$$Ax + By = C$$

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

Forms of Quadratic Functions

$$f(x) = ax^2 + bx + c$$

$$f(x) = a(x - h)^2 + k$$

$$f(x) = a(x - p)(x - q)$$

Forms of Exponential Functions

$$f(x) = ab^x$$

$$f(x) = a(1 \pm r)^x$$

Quadratic Formula

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

where $ax^2 + bx + c = 0$ and $a \neq 0$

Interest Formulas

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

$$A = Pe^{rt}$$

$$I = Prt$$