Pre-Calculus 11 Formula Sheet

General form: $y = ax^2 + bx + c$

Standard form: $y = a(x-p)^2 + q$

Factored form: $y = a(x - x_1)(x - x_2)$

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

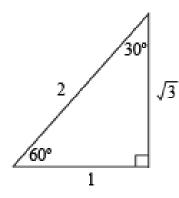
For trig, remember to check that your calculator is in DEGREE mode

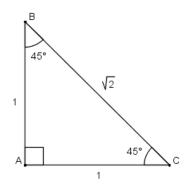
$$\sin\theta = \frac{opposite}{hypotenuse}$$
 $\cos\theta = \frac{adjacent}{hypotenuse}$

$$\cos\theta = \frac{adjacent}{hypotenuse}$$

$$Tan\theta = \frac{opposite}{adjacent}$$

Special Triangles:





Sine Law:
$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Cosine Law:
$$c^2 = a^2 + b^2 - 2abCosC$$

Simple Interest: I = prt

Future Amount (Principle + Interest): A = P+I or A = P(1+rt)

Compound Interest: $A = P(1 + \frac{r}{n})^{nt}$