PHYSICS

FACTORING PRACTICE

The Standard Form of a Quadratic

$$y = ax^2 + bx + c$$

The Quadratic Formula

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

Factor the Following Expressions:

$0 = x^2 - x - 2$ $24 = x^2 + 5x$

PHYSICS

FACTORING PRACTICE

In the case of projectile motion, the variable that we will be looking for is t (time). **Note:** *Time cannot be a negative value.*

Factor the Following Expressions for t:

$0 = -4.9t^2 + 2t + 20$

A ball is thrown vertically in the air off the top of a 20 m building with an initial velocity of 2m/s [up]. How long does it take to hit the ground below?