

4.3 Solving by Completing the Square

* It is sometimes easier to solve a quadratic equation when it is transformed into

* To do so, we must remember that if $x^2 = a$ then...

ex. Solve the following.

a) $x^2 = 13$

b) $(x-3)^2 - 16 = 0$

c) $3(x + 5)^2 - 40 = 0$

d) $-2x^2 + 4x + 3 = 0$

Ex. blah blah... rocket.. blah blah $h(x) = -0.04x^2 + 2x + 8$, where h = height (m) and x = horizontal distance (m). Where does the rocket land?