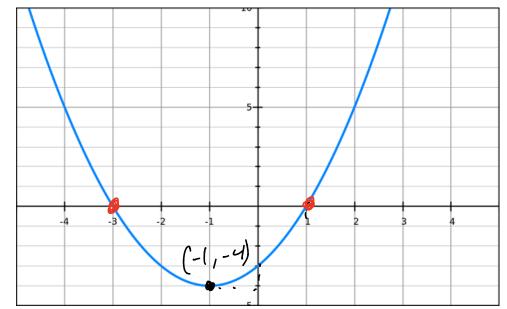
$\gamma = (\chi + 1)^2 - 4$

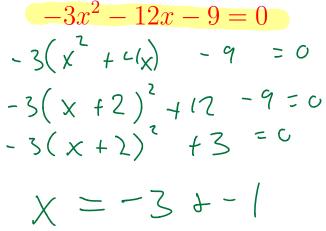
Solving Quadratics via Graph

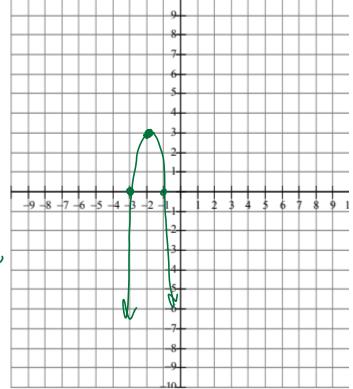


When we say "solving" we are trying to find the places that the parabola crosses the x-axis. This is also called the "zeroes" or the "roots". "roots". A quadratic equation is a _____ degree polynomial.

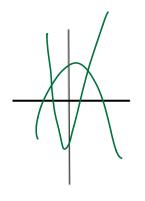
In standard form, $ax^2 + bx + c = 0$, it is not obvious what the parabola will look like.

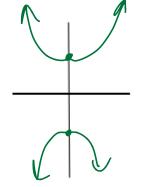
We complete the square so we can see it.

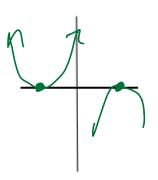


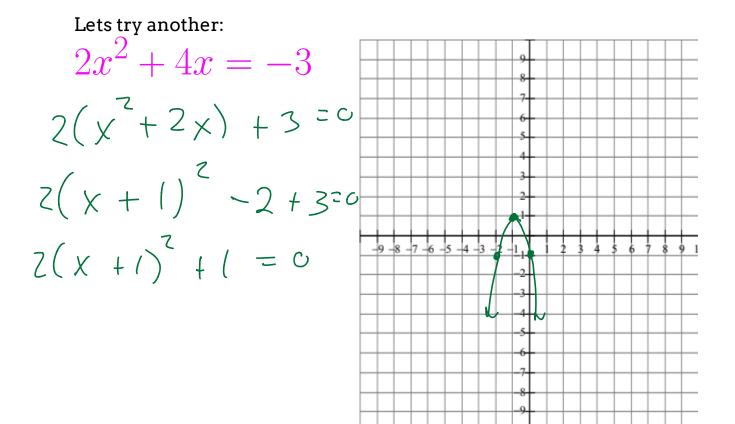


Will we always have 2 x-intercepts?









Homework: Solve the following by graphing.

1. $x^2 + 6x + 5 = 0$	2. $x^2 + 4x + 4 = 0$	3. $0 = x^2 - 2x + 2$
4. $x^2 + 4x = 5$	$5x^2 + 2x - 1 = 0$	6. $2x^2 = -8x - 6$

Also, Pg 215 #1, 2, 17, 18