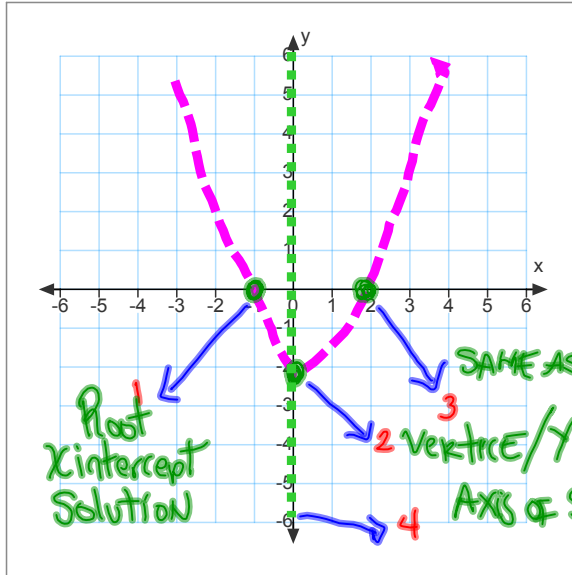


10/4/2011

Aim: How do we solve quadratic equations by graphing?

HW#7

Do Now NAME the different parts of the parabola



Oct 4-8:24 AM

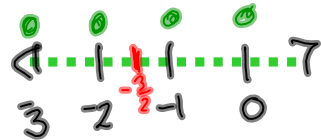
I - Solving Quadratic Equation by graphing.

1) $x^2 + 3x = 0$

$a = 1$

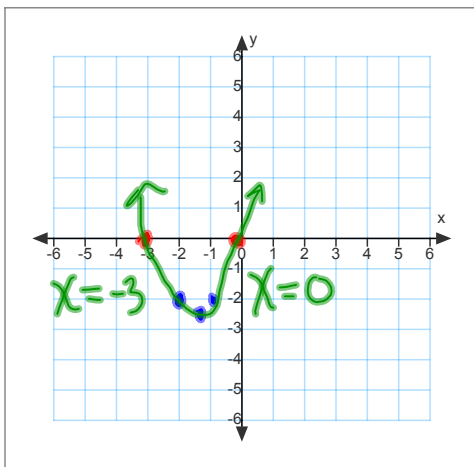
$b = 3$

$c = 0$



$x = -\frac{3}{2} = -1.5$

$x = \frac{-b}{2a} = \frac{-(3)}{2(1)} = \frac{-3}{2}$



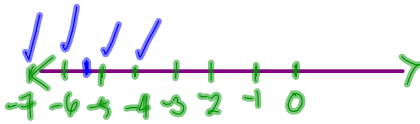
x	$x^2 + 3x$		
-3	9 - 9	-0	✓
-2	4 - 6	-2	✓
-1.5	2.25 - 4.5	-2.25	
-1		-2	
0		0	

$(-1.5)^2 + 3(-1.5) =$

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② $x^2 + 11x + 30 = 0$ ① $a = 1$ $b = 11$ $c = 30$

② $x = \frac{-b}{2a} = \frac{-11}{2} = -5.5$

③  $x = -6, x = -5$

x	$x^2 + 11x + 30$	y	(x, y)
-7	$(-7)^2 + 11(-7) + 30 = 49 - 77 + 30$	2	$(-7, 2)$
-6	$(-6)^2 + 11(-6) + 30 = 36 - 66 + 30$	0	$(-6, 0)$
-5.5	$(-5.5)^2 + 11(-5.5) + 30 =$	-0.25	$(-5.5, -0.25)$
-5		0	$(-5, 0)$
-4		2	$(-4, 2)$

$$\begin{array}{r} -5.5 \times -5.5 \\ \hline 27.5 \\ 275 \\ \hline +302.5 \end{array}$$

$$\begin{array}{r} -5.5 \times 11 \\ \hline 55 \\ \hline 55 \quad 4 \\ -60.50 \\ +60.25 \\ \hline -00.25 \end{array}$$

$$\begin{array}{r} +30.25 \\ +30.00 \\ \hline 60.25 \end{array}$$

Oct 4-9:01 AM