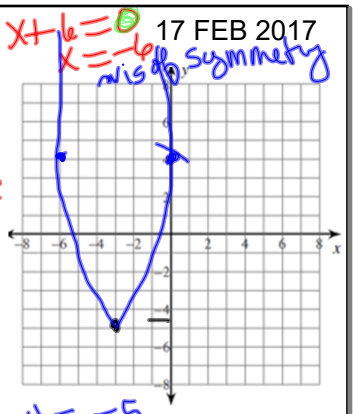
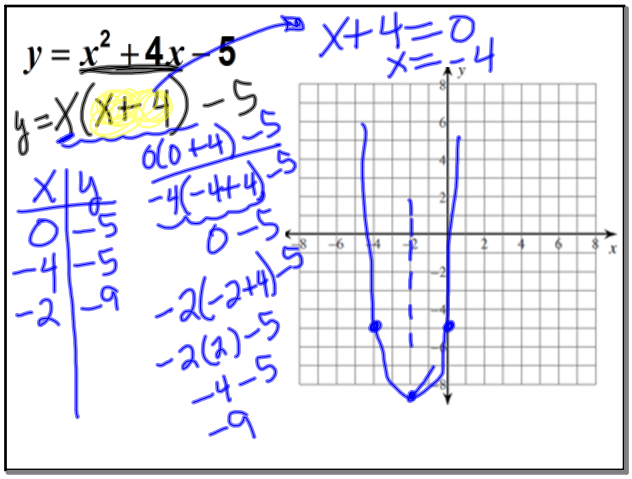
Starter 17 FEB 2017

Graph the following.

$y = x^2 + 6x + 4$





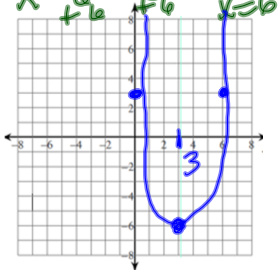
$y = x^2 + 4x - 5$

fix this problem on your paper.

(4) $y = x^2 - 6x + 3$ axis of symmetry _____ vertex _____

$y = x^2 - 2x + 1$ axis of symmetry _____ vertex _____

$y = x^2 + 7x - 6$ axis of symmetry _____ vertex _____

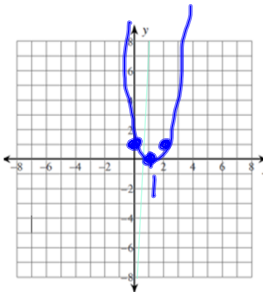


fix this problem on your paper.

$y = x^2 - 6x + 3$ axis of symmetry _____ vertex _____

(4) $y = x^2 - 2x + 1$ axis of symmetry _____ vertex _____

$y = x^2 + 7x - 6$ axis of symmetry _____ vertex _____



fix this problem on your paper.

$y = x^2 - 6x + 3$ axis of symmetry _____ vertex _____

4) $y = x^2 - 2x + 1$ axis of symmetry _____ vertex _____

$y = x^2 + 7x - 6$ axis of symmetry _____ vertex _____

$y = x(x+7) - 6$

x	y
0	-6
-7	-6
-3.5	-18.25

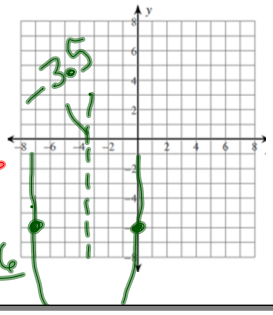
$0(0+7) - 6$

$0 - 6$

$-7(-7+7) - 6$

$0 - 6$

$-3.5(-3.5+7) - 6$



Use the quadratic formula

$a = 1$

$b = 8$

$c = -10$

$x^2 + 8x - 10 = 0$

$x = \frac{-(8) \pm \sqrt{(8)^2 - 4(1)(-10)}}{2(1)}$

$\frac{-8 + \sqrt{64 + 40}}{2}$ & $\frac{-8 - \sqrt{104}}{2}$

$x = 1.1$ & -9.1