C11 - 3.3 - Foil HW

Multiply Out

$y = (x+3)^2$

$y = (x-2)^2$

$y = \left(x+\frac{1}{2}\right)^2$

$y = (x+4)^2 - 3$

$y = (x-2)^2 + 1$

$y = \left(x+\frac{1}{3}\right)^2 + \frac{1}{2}$

$y = 2(x-3)^2 - 1$

$y = 2(x+1)^2 + 1$

$y = 2(x-2)^2 - 2$

$y = -(x-4)^2 - 1$

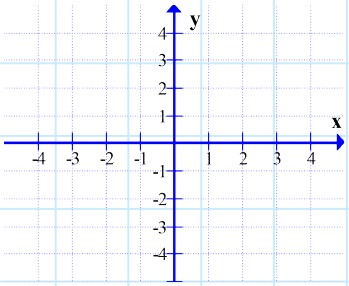
$y = -2(x-3)^2 + 2$

$y = -\frac{1}{2}(x+2)^2 - 3$

C11 - 3.3 - Completing the Square/Perfect Square HW

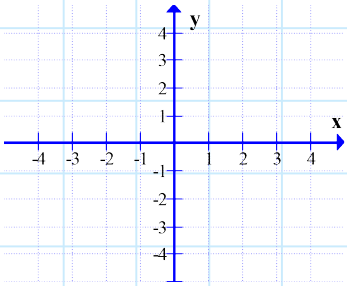
What value of "c" makes the following a perfect square, factor and write as a perfect square and the vertex: (x, y) and sketch a graph.

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

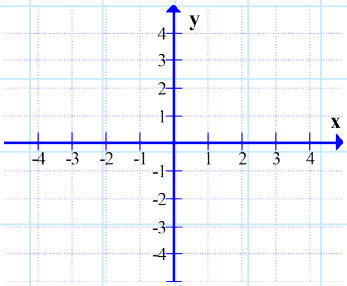


Complete the square and write the vertex: (x, y) and sketch a graph.

$y = x^2 + 6x + 5$



$y = 2x^2 - 8x + 9$



$y = x^2 - 8x + c$

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

$y = 2x^2 - 10x$

$y = -2x^2 - 12x - 15$

$y = x^2 + 4x + 1$

$y = x^2 + 8x$

$y = \frac{1}{2}x^2 + 4x + 2$

$y = 2x^2 - 6x + 17$

C11 - 3.3 - Completing the Square/Perfect Square HW

Perfect square: $y = (x - p)^2$

What value of "c" makes the following a perfect square, factor and write as a perfect square.

$y = x^2 + \frac{1}{2}x + c$

$y = x^2 - \frac{2}{3}x + c$

Complete the square and write the vertex: (x, y).

$y = x^2 + \frac{1}{2}x + 5$

$y = x^2 + \frac{1}{4}x + 1$

$y = x^2 - \frac{3}{2}x + 4$

$y = x^2 + \frac{2}{3}x$

$y = \frac{1}{2}x^2 - 2x + 9$

$y = 2x^2 - \frac{2}{3}x + 17$

$y = -2x^2 - \frac{3}{2}x - 15$

$y = 2x^2 - .05x$