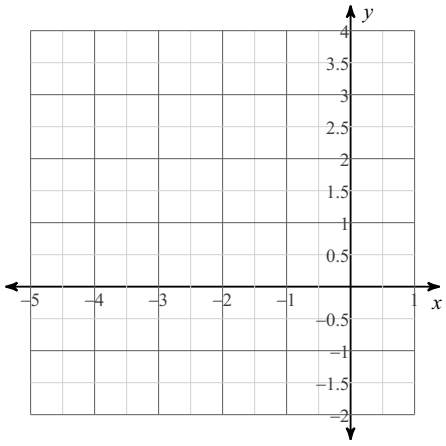
Secondary Math 2 Honors Name_____

Graphing Quadratics in Standard Form WS

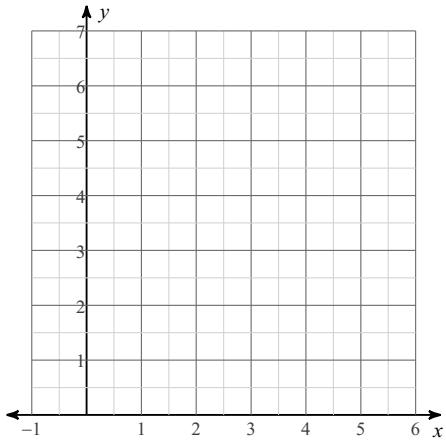
Date_____ Period____

Sketch the graph of each function. Write the vertex (V) and the axis of symmetry (A of S). Then change the equation to standard form (SF) by FOIL and combine like terms.

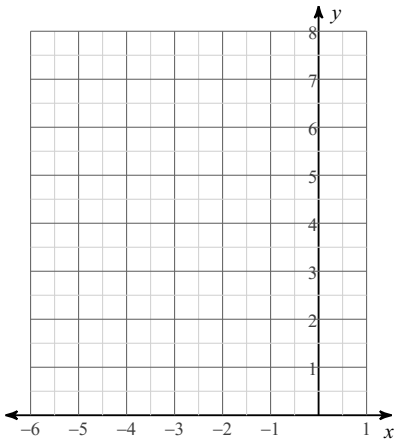
1) $y = (x + 2)^2 - 1$



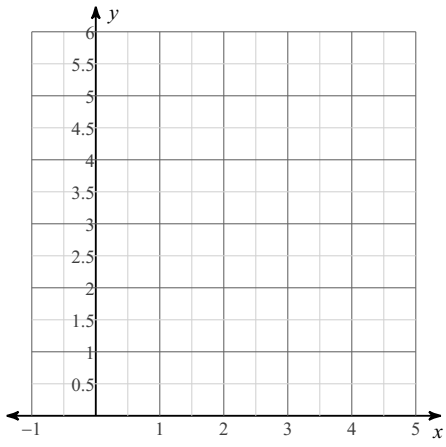
2) $y = (x - 4)^2 + 2$



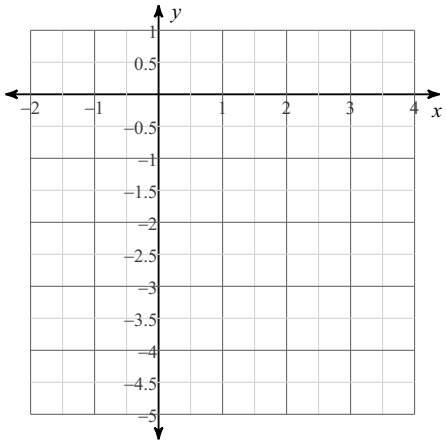
3) $y = (x + 4)^2 + 3$



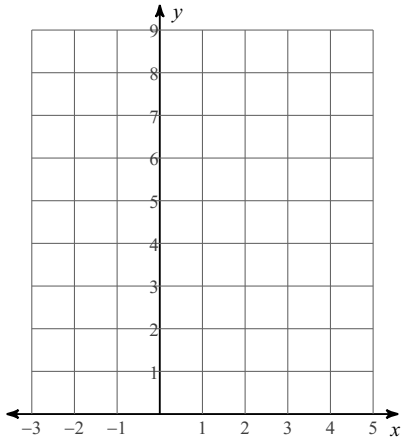
4) $y = (x - 3)^2 + 1$



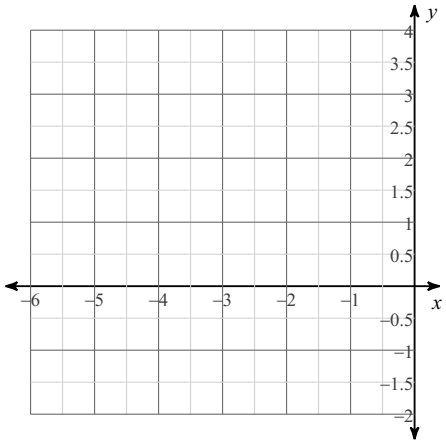
5) $y = (x-1)^2 - 4$



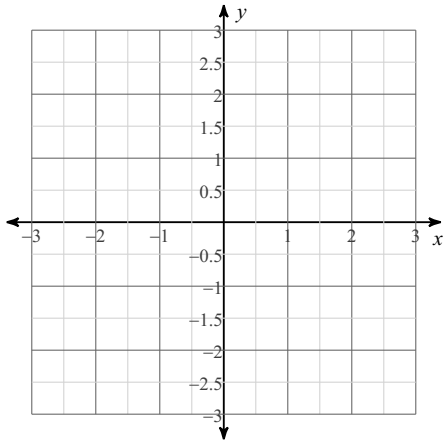
6) $y = (x-1)^2 + 4$



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

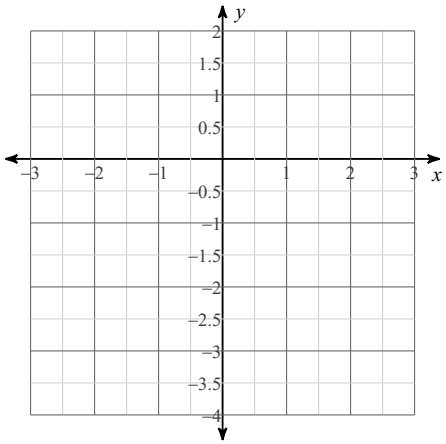


8) $y = (x+1)^2 - 2$

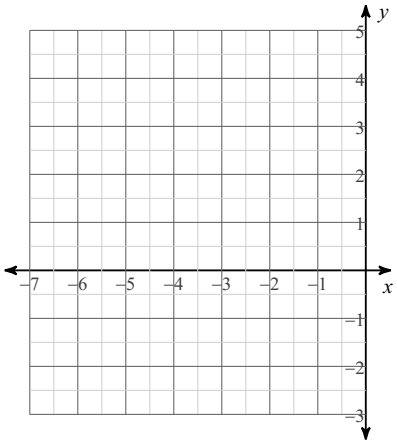


Change the equation to vertex form (VF) by completing the square. Write the vertex (V) and the axis of symmetry (A of S). Then sketch the graph.

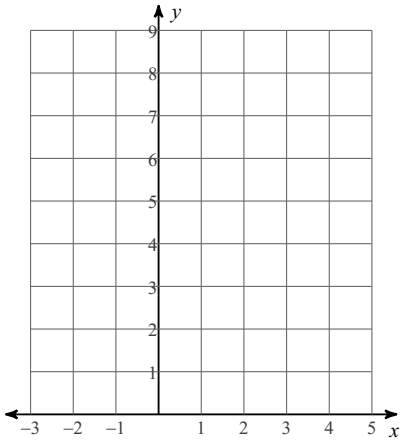
9) $y = x^2 + 2x - 2$



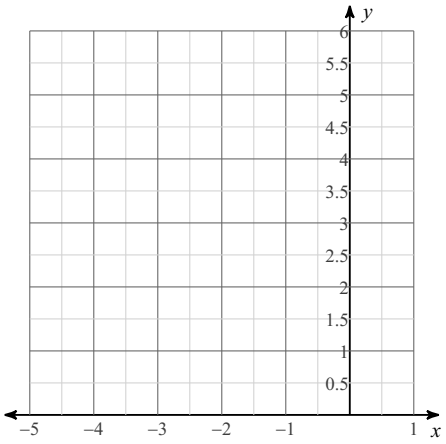
10) $y = x^2 + 8x + 15$



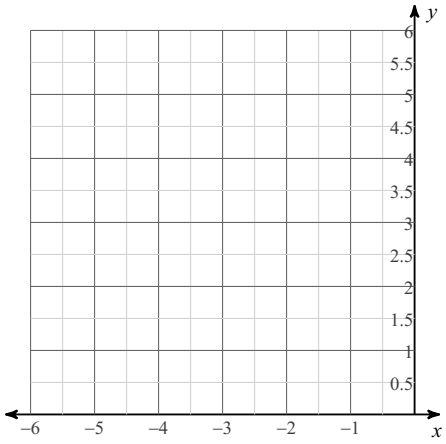
11) $y = x^2 - 6x + 13$



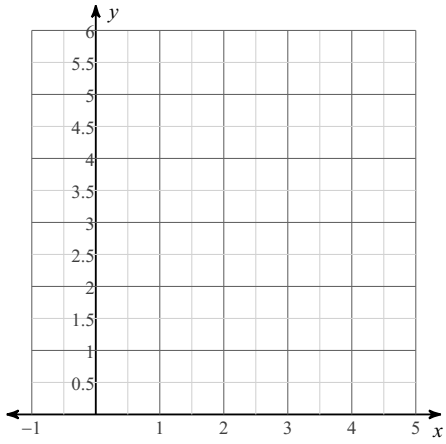
12) $y = x^2 + 4x + 5$



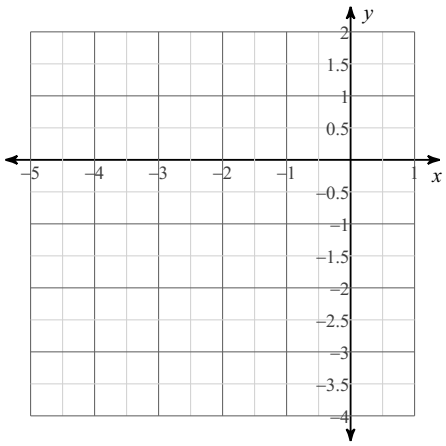
13) $y = x^2 + 6x + 10$



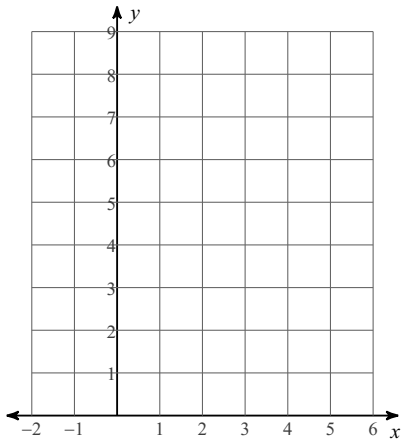
14) $y = x^2 - 4x + 5$



15) $y = x^2 + 6x + 6$

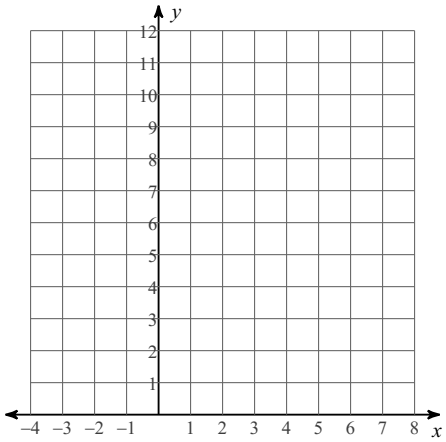


16) $y = x^2 - 4x + 8$

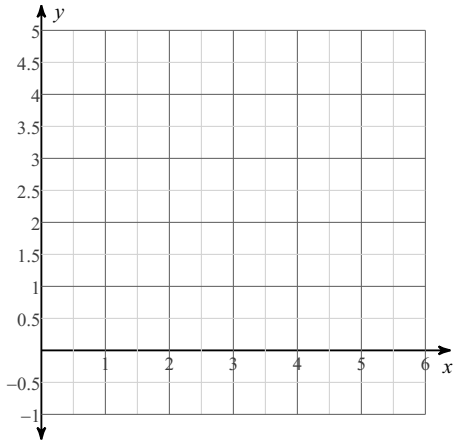


Sketch the graph of each function.

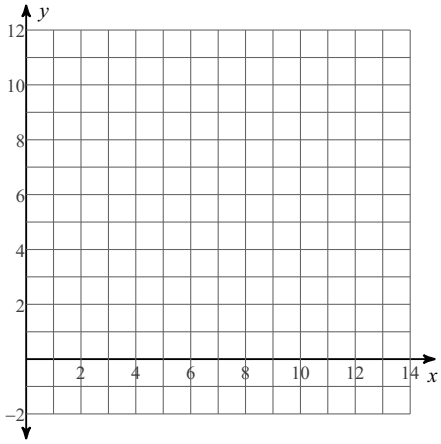
17) $y = 2x^2 - 4x + 5$



18) $y = -x^2 + 6x - 5$



19) $y = 3x^2 - 18x + 26$



20) $y = -\frac{1}{2}x^2 + 4x - 11$