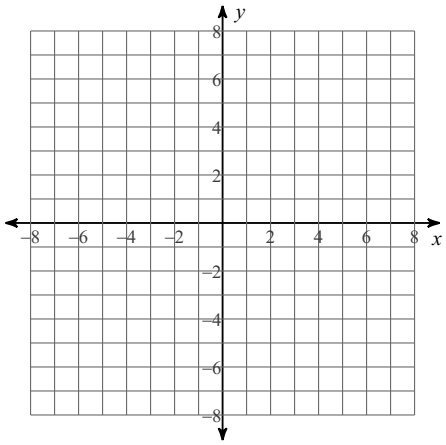
Algebra 2 Trig Name_____ ID: 1

Unit 3 Parabolas - Standard Form Graphing

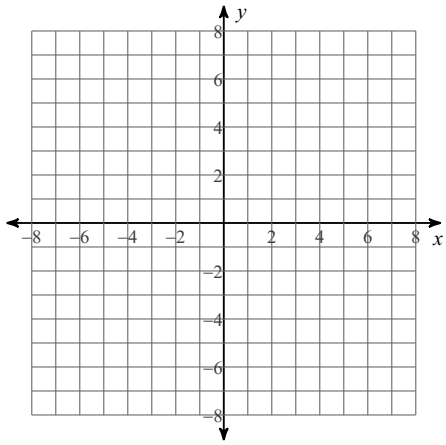
Date_____ Period____

Identify the vertex and axis of symmetry of each. Then sketch the graph.

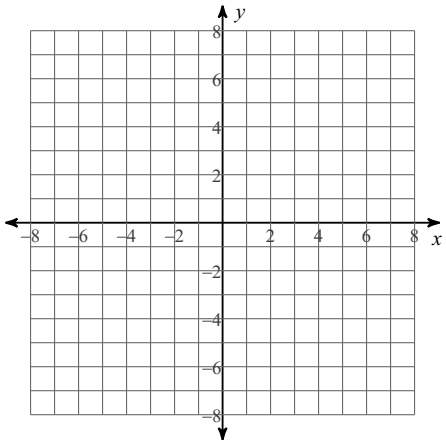
1) $y = x^2 - 12x + 40$



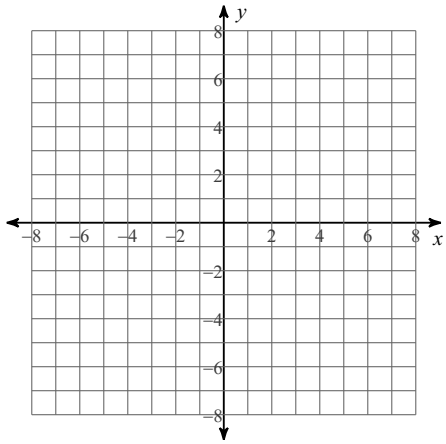
2) $y = x^2 - 4x - 2$



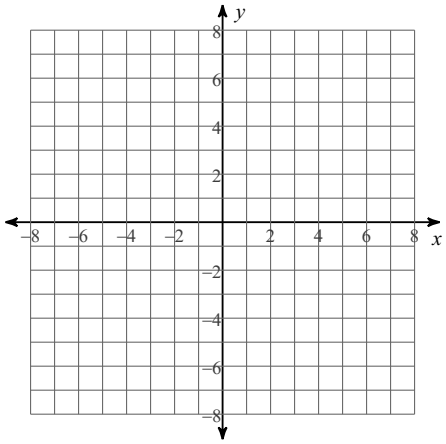
3) $y = x^2 - 6x + 4$



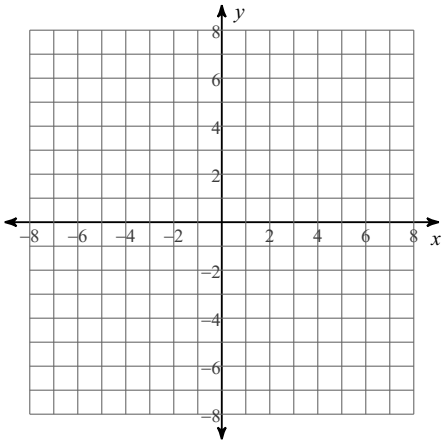
4) $y = -2x^2 + 16x - 35$



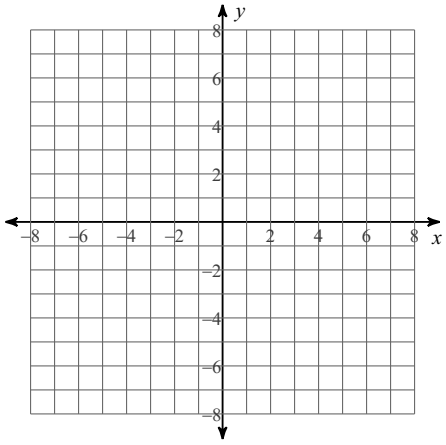
5) $y = -2x^2 - 12x - 18$



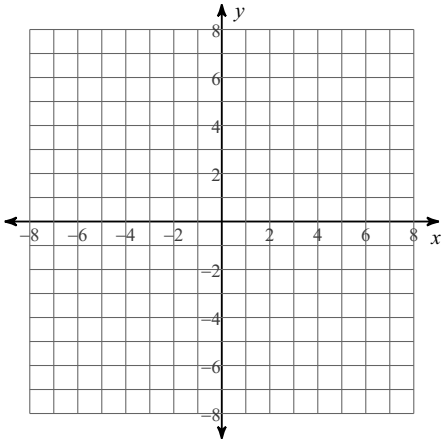
6) $y = 2x^2 - 16x + 26$



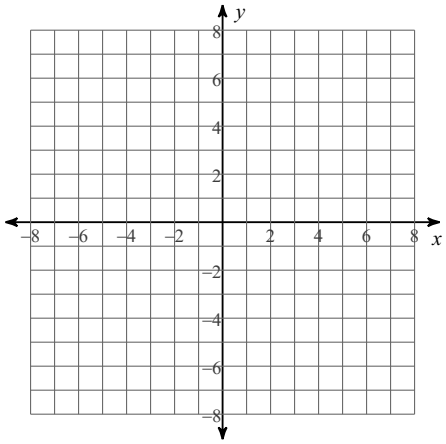
7) $y = -2x^2 - 12x - 22$



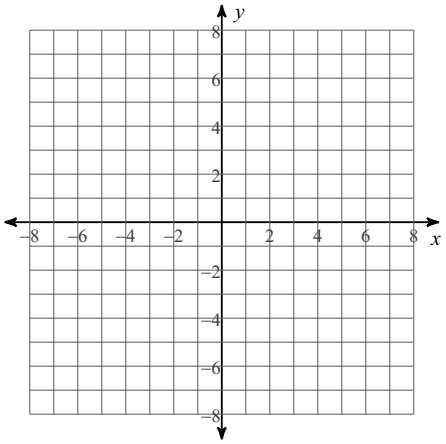
8) $y = \frac{1}{2}x^2 + 2x + 1$



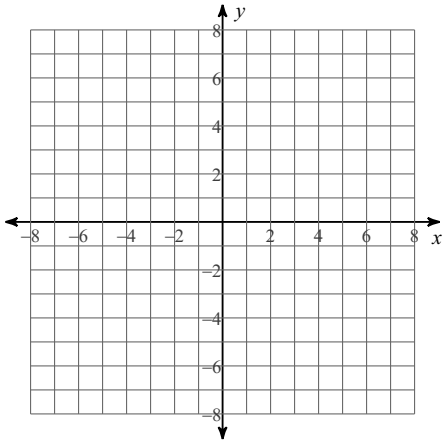
9) $y = -2x^2 + 4x - 5$



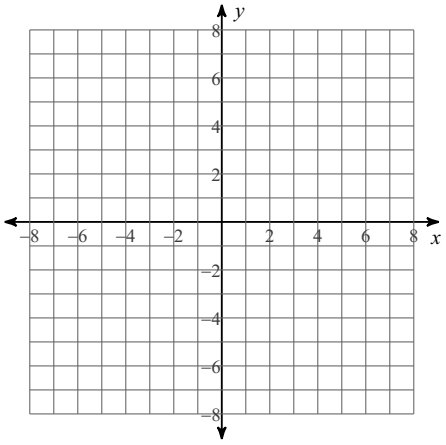
10) $y = 2x^2 - 4x - 4$



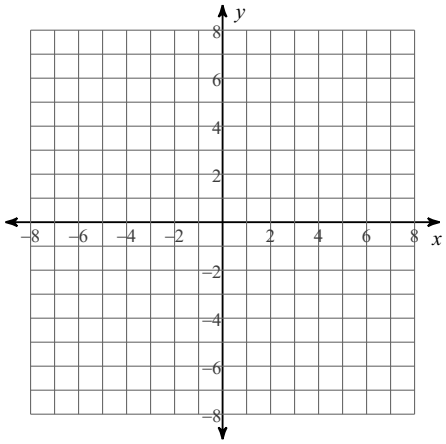
11) $y = -2x^2 + 16x - 36$



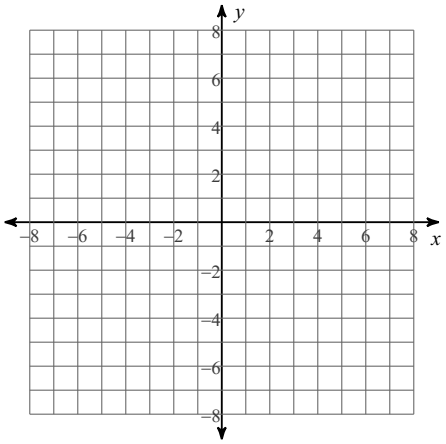
12) $y = -2x^2 - 20x - 50$



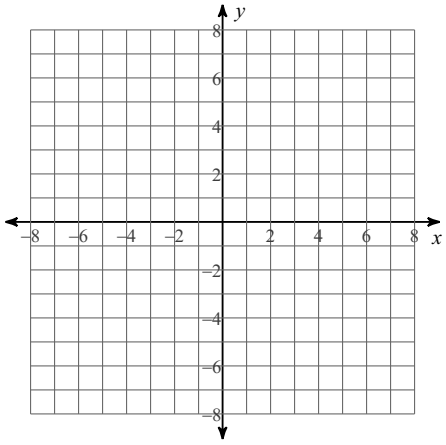
13) $y = x^2 + 10x + 22$



14) $y = x^2 - 10x + 23$



15) $y = 2x^2 + 24x + 68$



16) $y = 2x^2 - 24x + 70$