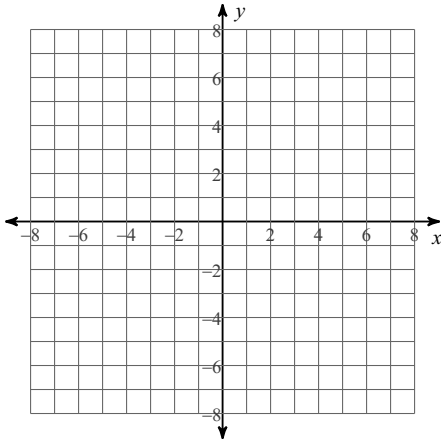


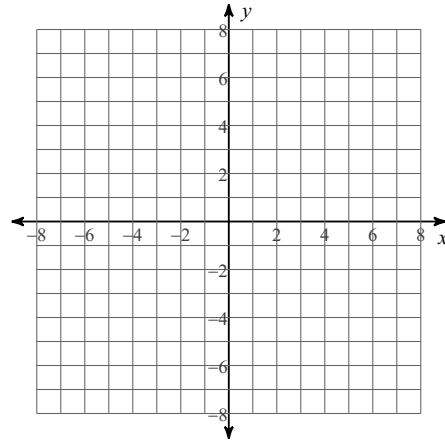
Unit 2 Review

Identify the vertex and or x-intercepts of each. Then sketch the graph. Show at least 2 points on both sides of the vertex.

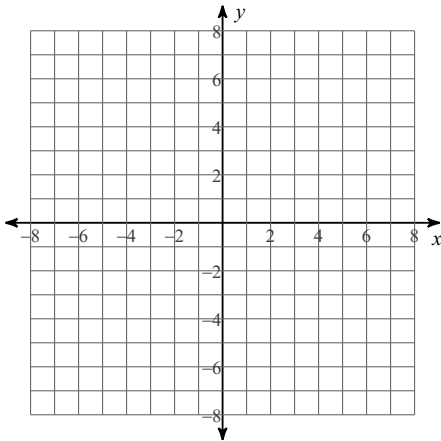
1) $y = -x^2 - 12x - 37$



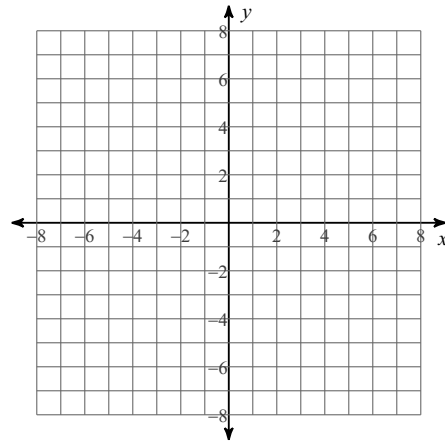
2) $y = -2x^2 + 20x - 50$



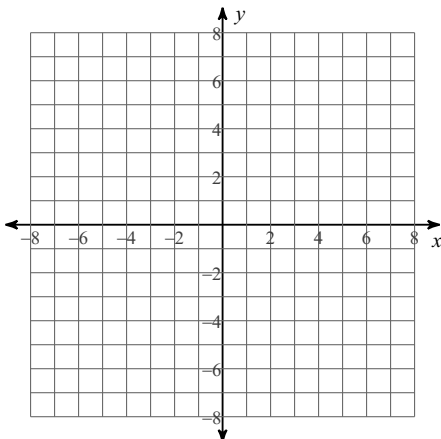
3) $y = 2(x - 5)^2 - 2$



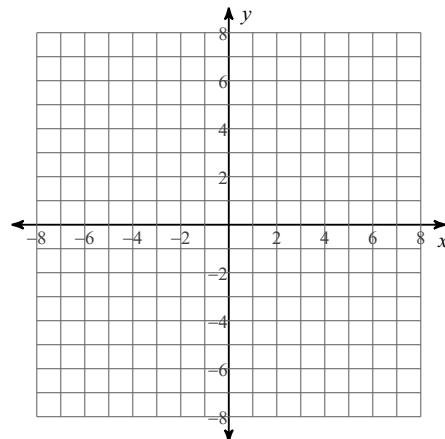
4) $y = -(x + 1)^2 - 1$



5) $y = -x^2 + 12x - 36$



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



Use the information provided to write the vertex form equation of each parabola.

7) $y = x^2 - 2x + 11$

8) $y = x^2 - 4x + 1$

9) $y = 4x^2 + 72x + 324$

10) $y = 2x^2 + 16x + 41$

Use the information provided to write the intercept form equation of each parabola.

11) $y = x^2 + 14x + 45$

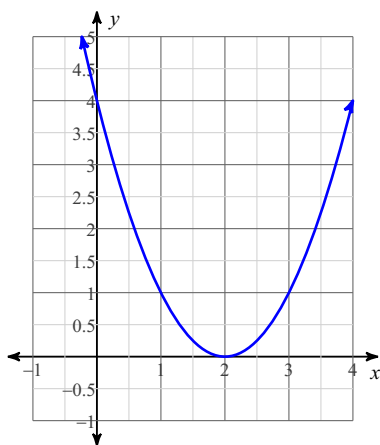
12) $y = x^2 - 3x - 18$

13) $y = 2x^2 - 10x + 8$

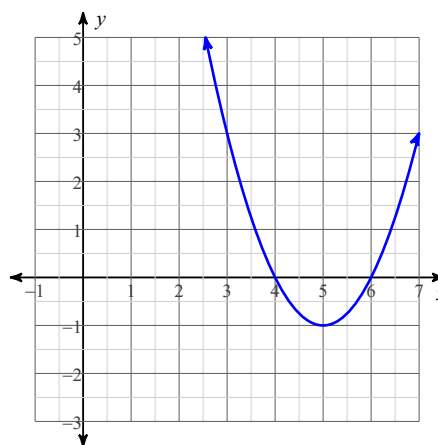
14) $y = -2x^2 + 26x - 60$

List the equation of the graph in at least two of the forms: vertex, intercept, or standard.

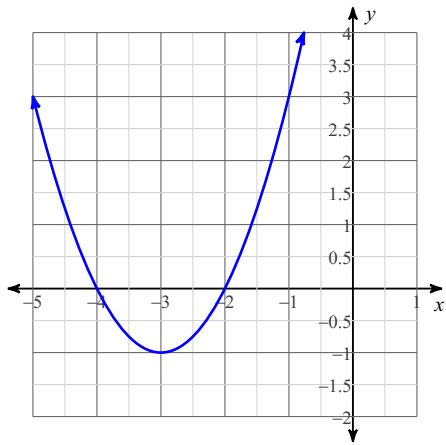
15)



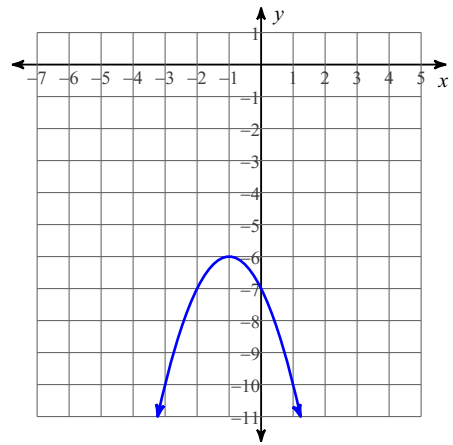
16)



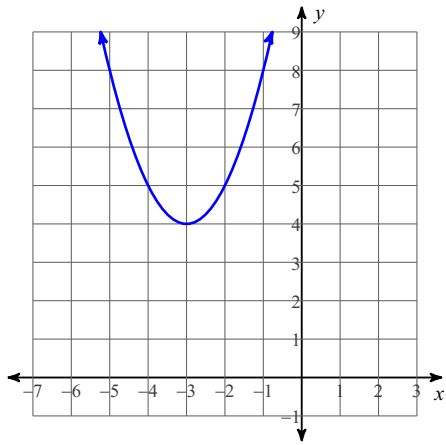
17)



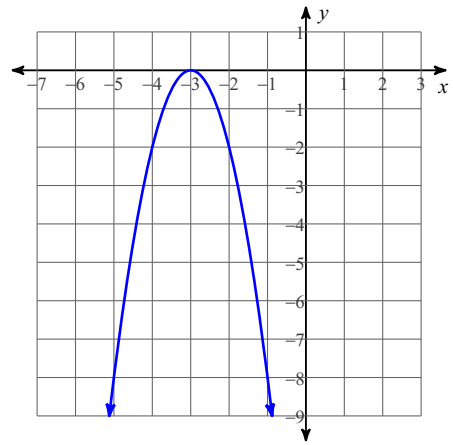
18)



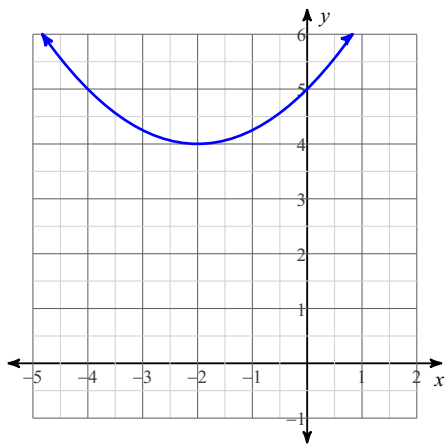
19)



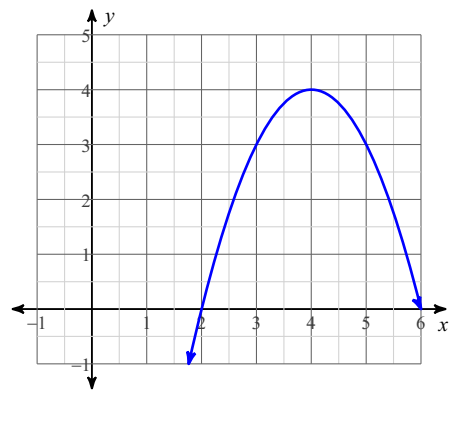
20)



21)



22)



Factor each completely.

23) $v^2 - 21v + 38$

24) $n^2 - 15n + 44$

25) $x^2 - 49$

26) $r^2 - 18r + 65$

27) $k^2 - 6k - 27$

28) $x^2 + 10x - 96$

29) $n^2 - 7n + 6$

30) $x^2 + 2x - 35$