

HW Graphing Quadratics (standard form)

© 2011 Kuta Software LLC. All rights reserved.

Find the discriminant of each quadratic equation then state the number and type of solutions.

1) $9x^2 + 4x + 7 = 0$

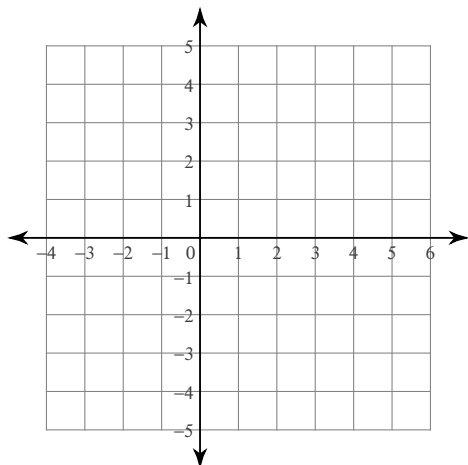
2) $3n^2 + 4n - 4 = 0$

3) $-8x^2 - 3x - 9 = 0$

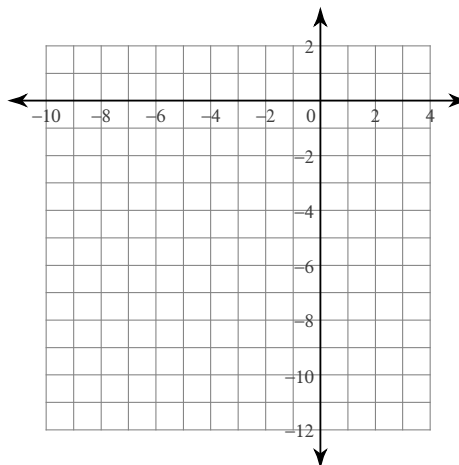
4) $6a^2 - a - 1 = 0$

Sketch the graph of each function.

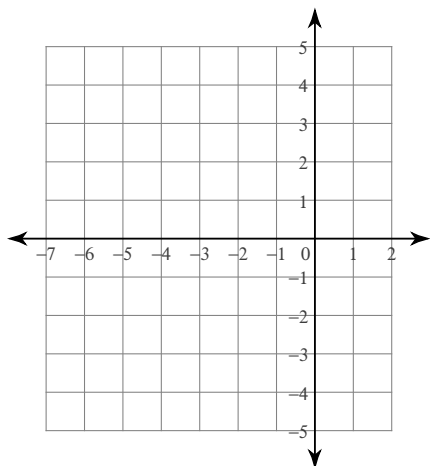
5) $y = 2x^2 + 4x - 2$



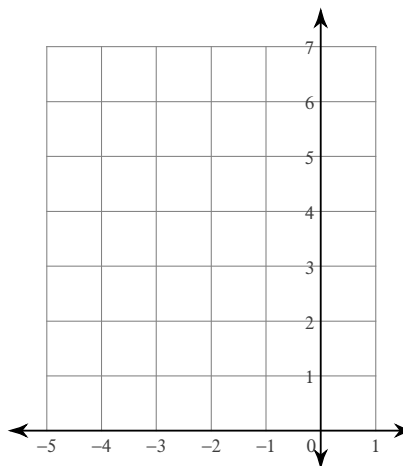
6) $y = -3x^2 + 12x - 11$



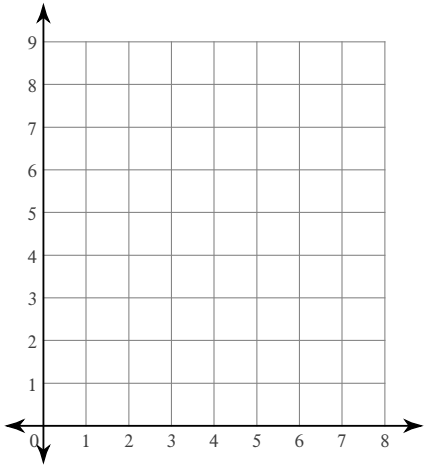
7) $y = -2x^2 - 16x - 28$



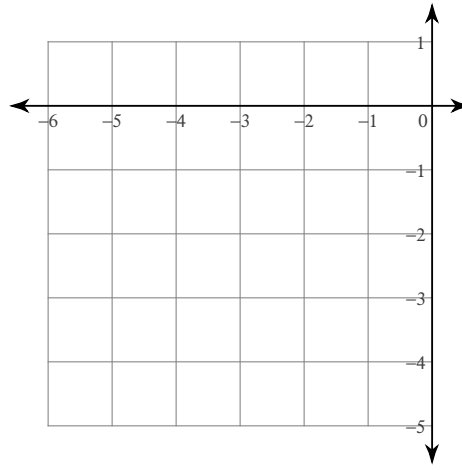
8) $y = x^2 + 4x + 6$



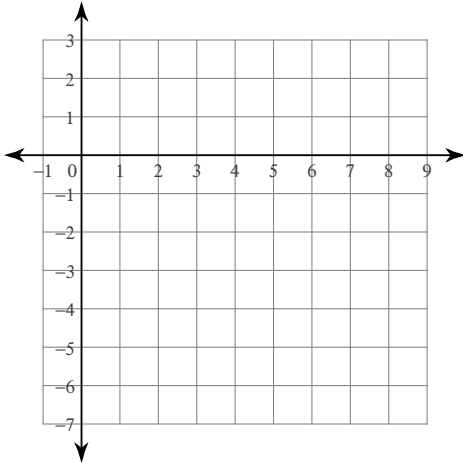
9) $y = x^2 - 6x + 13$



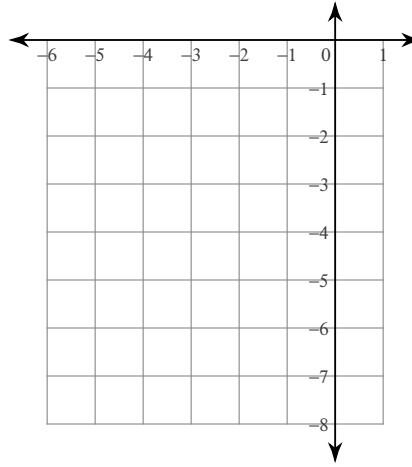
10) $y = x^2 + 4x$



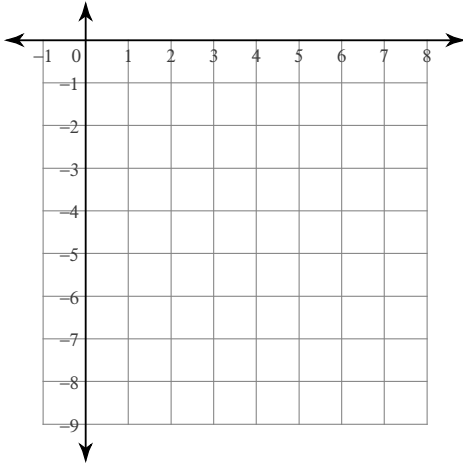
11) $y = -2x^2 + 8x - 6$



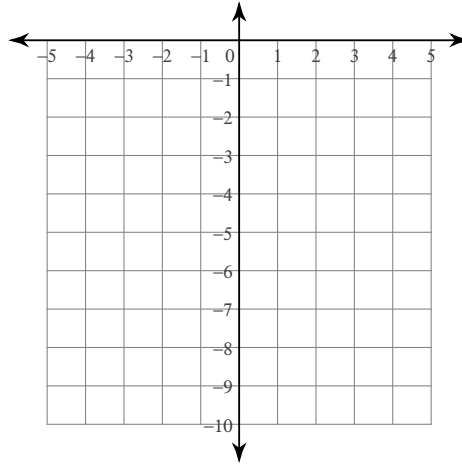
12) $y = -x^2 - 8x - 19$



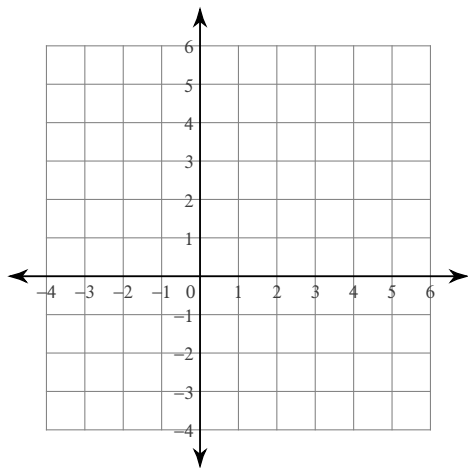
13) $y = -x^2 + 8x - 20$



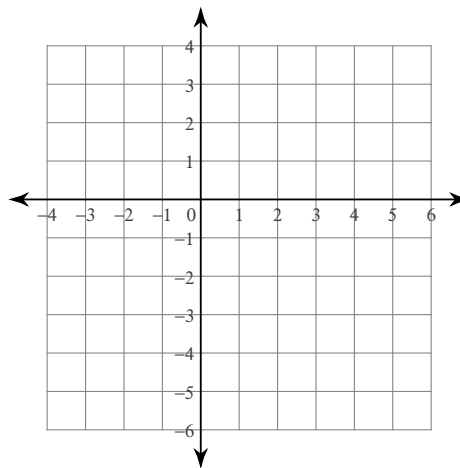
14) $y = -2x^2 + 8x - 9$



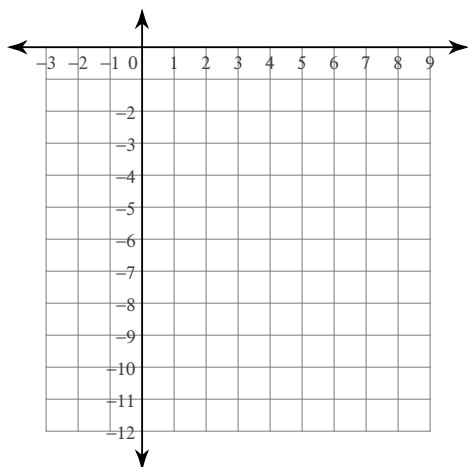
15) $y = 2x^2 - 4x - 1$



16) $y = -2x^2 + 12x - 15$



17) $y = -2x^2 + 12x - 21$



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

