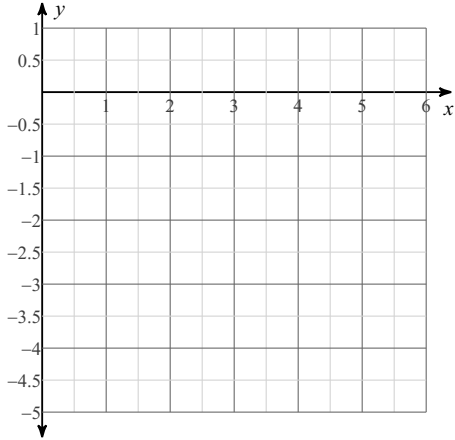


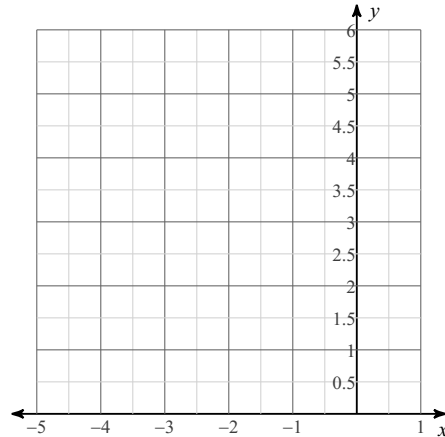
# Quadratic Functions Test Review

Sketch the graph of each function.

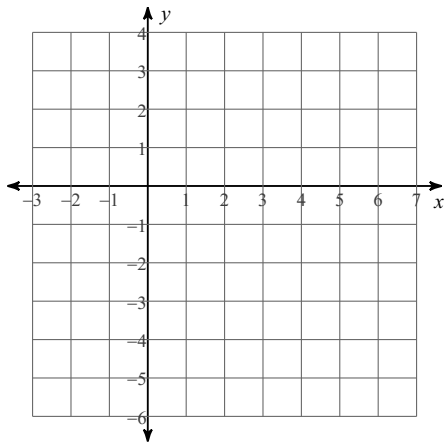
1)  $y = (x - 3)^2 - 4$



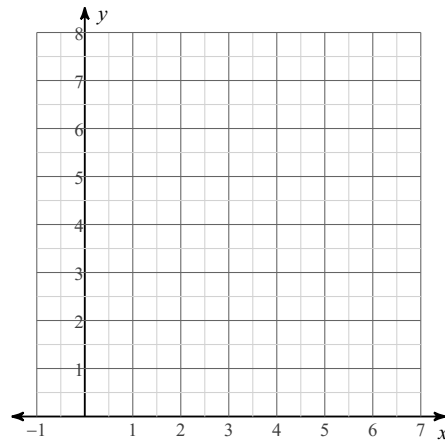
2)  $y = \frac{1}{2}(x + 2)^2 + 3$



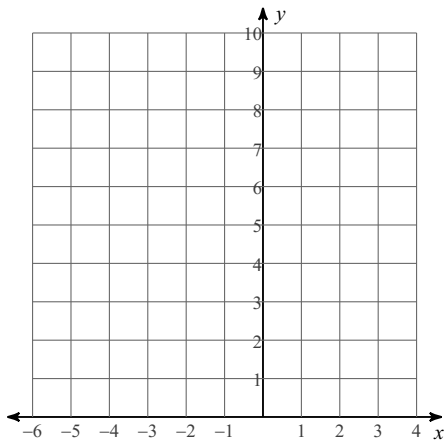
3)  $y = -2(x - 2)^2 + 3$



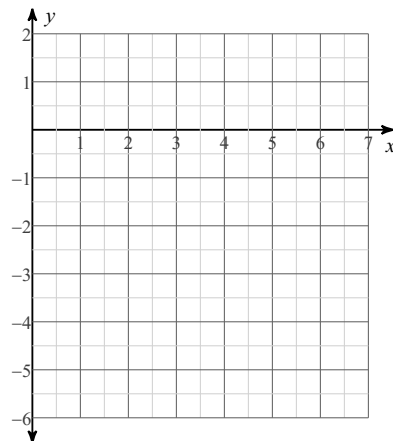
4)  $y = x^2 - 4x + 7$



5)  $y = 2x^2 + 12x + 19$



6)  $y = -\frac{1}{2}x^2 + 4x - 9$



**Solve each equation by taking square roots.**

7)  $n^2 = 36$

8)  $r^2 = -25$

9)  $n^2 - 9 = 40$

10)  $7x^2 = 63$

11)  $3m^2 - 8 = 292$

12)  $3x^2 + 6 = 1$

**Solve each equation by factoring.**

13)  $n(n + 6) = 0$

14)  $(2x - 5)(x - 6) = 0$

15)  $n^2 + 5n = 0$

16)  $x^2 + 3x - 28 = 0$

17)  $v^2 - 5v - 24 = 0$

18)  $x^2 - 15x + 56 = 0$

19)  $2a^2 - a - 6 = 0$

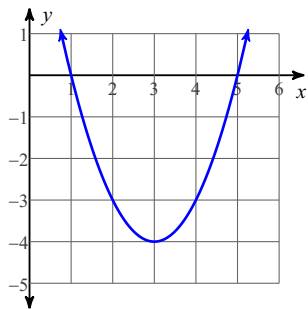
20)  $2n^2 - n - 3 = 0$

21)  $x^2 - x - 34 = -4$

22)  $x^2 + 5x - 7 = 7$

# Answers to Quadratic Functions Test Review

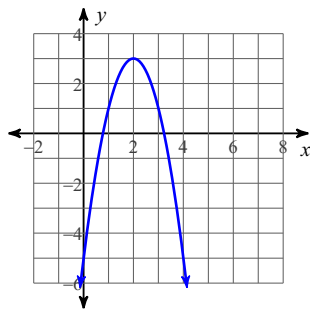
1)



7)  $\{6, -6\}$

15)  $\{-5, 0\}$

3)



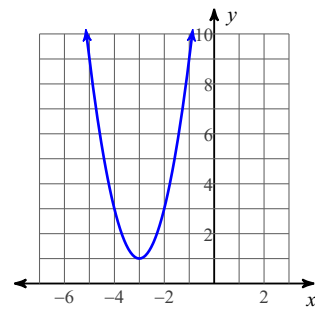
9)  $\{7, -7\}$

17)  $\{8, -3\}$

11)  $\{10, -10\}$

19)  $\left\{-\frac{3}{2}, 2\right\}$

5)



13)  $\{-6, 0\}$

21)  $\{-5, 6\}$