

Solve each of the following using the quadratic formula

1. $x^2 + 3x - 4 = 0$

2. $2x^2 + 3x - 7 = 0$

3. $x^2 + 12x + 36 = 0$

4. $x^2 + 3x + 6 = 0$

5. $4x^2 + 12x + 9 = 0$

6. $-2x^2 + 3x + 5 = 0$

7. $10x^2 + 17x - 92 = 0$

8. $3x^2 + 6x + 5 = 0$

Solve for the roots of each of the following using the quadratic formula. Then graph each function.

9. $f(x) = 3x^2 + x - 4$

10. $f(x) = x^2 - 4 - 3x$

11. $f(x) = x^2 - 5x + 25$

12. $f(x) = -4x^2 + 3x - 7$