

Assignment 12: Quadratic Formula

Solve each equation with the quadratic formula.

1) $3x^2 + 2x + 5 = 0$

2) $2a^2 + 3a - 20 = 0$

3) $v^2 + 5v - 24 = 0$

4) $2r^2 - r - 10 = 0$

5) $n^2 + n - 12 = 0$

6) $r^2 + 2r - 8 = 0$

7) $3b^2 = -3b + 90$

8) $7x^2 = 17 - 5x$

9) $4n^2 = 56 + 2n$

10) $3b^2 - 28 = -5b$

11) $3x^2 = 75$

12) $2b^2 = 18$

13) $4b^2 - 10b = 36$

14) $9v^2 = -4v + 20$

15) $3n^2 + n = -9$

Assignment 12: Quadratic Formula

Solve each equation with the quadratic formula.

1) $3x^2 + 2x + 5 = 0$

No solution.

2) $2a^2 + 3a - 20 = 0$

 $\{2.5, -4\}$

3) $v^2 + 5v - 24 = 0$

 $\{3, -8\}$

4) $2r^2 - r - 10 = 0$

 $\{2.5, -2\}$

5) $n^2 + n - 12 = 0$

 $\{3, -4\}$

6) $r^2 + 2r - 8 = 0$

 $\{2, -4\}$

7) $3b^2 = -3b + 90$

 $\{5, -6\}$

8) $7x^2 = 17 - 5x$

 $\{1.242, -1.956\}$

9) $4n^2 = 56 + 2n$

 $\{4, -3.5\}$

10) $3b^2 - 28 = -5b$

 $\{2.333, -4\}$

11) $3x^2 = 75$

 $\{5, -5\}$

12) $2b^2 = 18$

 $\{3, -3\}$

13) $4b^2 - 10b = 36$

 $\{4.5, -2\}$

14) $9v^2 = -4v + 20$

 $\{1.285, -1.729\}$

15) $3n^2 + n = -9$

No solution.