

Solving Quadratic Equations Mixed Practice

Date _____ Period _____

Solve each equation.

1) $b^2 + 5b - 30 = -6$

2) $-m^2 - 9m + 20 = -2m^2$

3) $13b^2 = 25 + 9b^2$

4) $2x^2 - 7 - 9x = -9x$

5) $-4b^2 + b + 12 = -10b^2$

6) $3n^2 + 9n - 392 = 2n - 4n^2$

$$7) 3v^2 - 3 = 6v + 6$$

$$8) 12m^2 + 14m - 7 = 3m$$

$$9) 6x^2 + 6x = 0$$

$$10) 3x^2 - 40 = -7x$$

$$11) 6m^2 - 10m - 60 = -11m + 2m^2$$

$$12) 2n^2 - 13 = -n$$

Answers to Solving Quadratic Equations Mixed Practice (ID: 1)

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|-----------------|---------------------|--------------------|-------------------------|
| 1) $\{3, -8\}$ | 2) $\{5, 4\}$ | 3) $\{2.5, -2.5\}$ | 4) $\{1.871, -1.871\}$ |
| 5) No solution. | 6) $\{-8, 7\}$ | 7) $\{3, -1\}$ | 8) $\{0.432, -1.349\}$ |
| 9) $\{-1, 0\}$ | 10) $\{2.667, -5\}$ | 11) $\{3.75, -4\}$ | 12) $\{2.312, -2.812\}$ |