

12-05-25-T8 solve quadratic by completing the square.

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**Solve each equation by completing the square. Do odds and evens.**

1)  $4n^2 - 8n + 3 = 0$

2)  $5p^2 - 10p - 15 = 0$

3)  $2x^2 - 8x - 10 = 0$

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

5)  $2m^2 + 6m - 8 = 0$

6)  $3r^2 + r - 4 = 0$

7)  $2n^2 - 4n = 2$

8)  $3x^2 = 9 - 6x$

9)  $3r^2 + 6r = 7$

10)  $2b^2 - 6 = -4b$

11)  $2v^2 - 5v = 8$

12)  $5n^2 - 6 = -3n + 2n^2$

Answers to 12-05-25-T8 solve quadratic by completing the square.

1)  $\left\{\frac{3}{2}, \frac{1}{2}\right\}$

2)  $\{3, -1\}$

3)  $\{5, -1\}$

4)  $\left\{\frac{2+\sqrt{10}}{2}, \frac{2-\sqrt{10}}{2}\right\}$

5)  $\{1, -4\}$

6)  $\left\{1, -\frac{4}{3}\right\}$

7)  $\{1+\sqrt{2}, 1-\sqrt{2}\}$

8)  $\{1, -3\}$

9)  $\left\{\frac{-3+\sqrt{30}}{3}, \frac{-3-\sqrt{30}}{3}\right\}$

10)  $\{1, -3\}$

11)  $\left\{\frac{5+\sqrt{89}}{4}, \frac{5-\sqrt{89}}{4}\right\}$

12)  $\{1, -2\}$