

Solving Quadratic Equations Practice 2

Period ____

Solve each equation by completing the square.

1) $p^2 - 16p + 39 = 0$

2) $10k^2 - 20k - 80 = 0$

3) $9x^2 + 18x + 82 = 0$

4) $n^2 - 18n + 66 = 0$

5) $9m^2 - 18m + 8 = 0$

6) $2x^2 + 8x + 77 = 0$

Solve each equation by factoring.

7) $n^2 - 6n - 16 = 0$

8) $8x^2 + 64x + 120 = 0$

9) $b^2 + 5b = 0$

10) $v^2 - 8v = 0$

11) $6x^2 - 66x + 144 = 0$

12) $n^2 - 7n - 8 = 0$

Solve each equation with the quadratic formula.

13) $3k^2 - 3k - 126 = 0$

14) $5a^2 + a - 48 = 0$

15) $4p^2 - 5p - 51 = 0$

16) $11x^2 + 4x + 12 = 0$

17) $n^2 - 3n + 7 = 0$

18) $2m^2 - 3m - 2 = 0$

Answers to Solving Quadratic Equations Practice 2 (ID: 1)

1) $\{13, 3\}$

2) $\{4, -2\}$

3) $\left\{\frac{-3 + i\sqrt{73}}{3}, \frac{-3 - i\sqrt{73}}{3}\right\}$

4) $\{9 + \sqrt{15}, 9 - \sqrt{15}\}$

5) $\left\{\frac{4}{3}, \frac{2}{3}\right\}$

6) $\left\{\frac{-4 + i\sqrt{138}}{2}, \frac{-4 - i\sqrt{138}}{2}\right\}$

7) $\{8, -2\}$

8) $\{-5, -3\}$

9) $\{-5, 0\}$

10) $\{8, 0\}$

11) $\{3, 8\}$

12) $\{8, -1\}$

13) $\{7, -6\}$

14) $\left\{3, -\frac{16}{5}\right\}$

15) $\left\{\frac{17}{4}, -3\right\}$

16) $\left\{\frac{-2 + 8i\sqrt{2}}{11}, \frac{-2 - 8i\sqrt{2}}{11}\right\}$

17) $\left\{\frac{3 + i\sqrt{19}}{2}, \frac{3 - i\sqrt{19}}{2}\right\}$

18) $\left\{2, -\frac{1}{2}\right\}$