

Practice Quiz

Date _____ Period _____

Solve each equation by factoring.

1) $3n^2 - 14n + 16 = 0$

2) $7p^2 + 50p - 48 = 0$

3) $35p^2 + 31p - 40 = 0$

Solve each equation by taking square roots.

4) $-4 - 2x^2 = -24$

5) $2m^2 - 7 = 7$

6) $81m^2 + 1 = 10$

Solve each equation with the quadratic formula.

7) $10n^2 - n + 1 = 0$

8) $2n^2 - n - 66 = 0$

9) $r^2 - 1 = 0$

Solve each equation by completing the square.

10) $x^2 - 4x + 1 = 0$

11) $x^2 + 6x - 47 = 0$

12) $5k^2 + 20k - 16 = 0$

13) $3x^2 - 12x - 96 = 0$

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Date _____ Period _____

Solve each equation by factoring.

1) $3n^2 - 14n + 16 = 0$

$\left\{\frac{8}{3}, 2\right\}$

2) $7p^2 + 50p - 48 = 0$

$\left\{\frac{6}{7}, -8\right\}$

3) $35p^2 + 31p - 40 = 0$

$\left\{\frac{5}{7}, -\frac{8}{5}\right\}$

Solve each equation by taking square roots.

4) $-4 - 2x^2 = -24$

$\{\sqrt{10}, -\sqrt{10}\}$

5) $2m^2 - 7 = 7$

$\{\sqrt{7}, -\sqrt{7}\}$

6) $81m^2 + 1 = 10$

$\left\{\frac{1}{3}, -\frac{1}{3}\right\}$

Solve each equation with the quadratic formula.

7) $10n^2 - n + 1 = 0$

$\left\{\frac{1 + i\sqrt{39}}{20}, \frac{1 - i\sqrt{39}}{20}\right\}$

8) $2n^2 - n - 66 = 0$

$\left\{6, -\frac{11}{2}\right\}$

9) $r^2 - 1 = 0$

$\{1, -1\}$

Solve each equation by completing the square.

10) $x^2 - 4x + 1 = 0$

$\{2 + \sqrt{3}, 2 - \sqrt{3}\}$

11) $x^2 + 6x - 47 = 0$

$\{-3 + 2\sqrt{14}, -3 - 2\sqrt{14}\}$

12) $5k^2 + 20k - 16 = 0$

$\left\{\frac{-10 + 6\sqrt{5}}{5}, \frac{-10 - 6\sqrt{5}}{5}\right\}$

13) $3x^2 - 12x - 96 = 0$

$\{8, -4\}$