Activity 0825

Date Period

Solve each equation.

1)
$$5 + v = 12$$

2)
$$\frac{x}{19} = -13$$

Solve each equation by taking square roots.

3)
$$49k^2 - 8 = 41$$

4)
$$5k^2 - 4 = 341$$

Solve each equation by factoring.

5)
$$n^2 + 7n = -10$$

6)
$$n^2 = -7n + 8$$

7)
$$2x^2 - 20 = -3x$$

8)
$$3n^2 = 4n + 15$$

Solve each equation by completing the square.

9)
$$p^2 - 12p - 6 = -10$$

10)
$$b^2 - 14b + 46 = 2$$

11)
$$2x^2 - 20x + 41 = -6$$

12)
$$5n^2 + 10n - 34 = 6$$

Activity 0825

Period

Solve each equation.

1)
$$5 + v = 12$$
 $\{7\}$

2)
$$\frac{x}{19} = -13$$
 $\{-247\}$

Solve each equation by taking square roots.

3)
$$49k^2 - 8 = 41$$
 $\{1, -1\}$

4)
$$5k^2 - 4 = 341$$
 $\left\{ \sqrt{69}, -\sqrt{69} \right\}$

Solve each equation by factoring.

5)
$$n^2 + 7n = -10$$
 $\{-5, -2\}$

6)
$$n^2 = -7n + 8$$
 $\{-8, 1\}$

7)
$$2x^2 - 20 = -3x$$
 $\left\{ \frac{5}{2}, -4 \right\}$

8)
$$3n^2 = 4n + 15$$
 $\left\{-\frac{5}{3}, 3\right\}$

Solve each equation by completing the square.

9)
$$p^2 - 12p - 6 = -10$$
 $\{6 + 4\sqrt{2}, 6 - 4\sqrt{2}\}$

10)
$$b^2 - 14b + 46 = 2$$
 $\{7 + \sqrt{5}, 7 - \sqrt{5}\}$

11)
$$2x^2 - 20x + 41 = -6$$

$$\left\{ \frac{10 + \sqrt{6}}{2}, \frac{10 - \sqrt{6}}{2} \right\}$$

12)
$$5n^2 + 10n - 34 = 6$$
 {2, -4}