

$$7x = \emptyset \quad x^3 = \emptyset$$

$$x = \emptyset \quad x = \emptyset$$

1. Solve for unknown  $x$ .

$$(x+1)(x-1) = 0$$

$$\begin{array}{r} x+1 = \emptyset \text{ OR } x-1 = \emptyset \\ -1 \quad -1 \quad \quad +1 \quad +1 \end{array}$$

$$\boxed{x = -1 \text{ OR } x = 1}$$

$$(x+3)(x-3) = 0$$

$$\begin{array}{r} x+3 = 0 \text{ OR } x-3 = \emptyset \\ -3 \quad -3 \quad \quad +3 \quad +3 \end{array}$$

$$\boxed{x = -3 \text{ OR } x = 3}$$

$$(x+5)(x-5) = 0$$

$$\begin{array}{r} x+5 = \emptyset \text{ OR } x-5 = \emptyset \\ -5 \quad -5 \quad \quad +5 \quad +5 \end{array}$$

$$\boxed{x = -5 \text{ OR } x = 5}$$

$$(x+\sqrt{3})(x-\sqrt{3}) = 0$$

$$\begin{array}{r} x+\sqrt{3} = \emptyset \text{ OR } x-\sqrt{3} = 0 \\ -\sqrt{3} \quad -\sqrt{3} \quad \quad +\sqrt{3} \quad +\sqrt{3} \end{array}$$

$$\boxed{x = -\sqrt{3} \text{ OR } x = \sqrt{3}}$$

$$(x+\sqrt{5})(x-\sqrt{5}) = 0$$

$$\begin{array}{r} x+\sqrt{5} = 0 \text{ OR } x-\sqrt{5} = \emptyset \\ -\sqrt{5} \quad -\sqrt{5} \quad \quad +\sqrt{5} \quad +\sqrt{5} \end{array}$$

$$\boxed{x = -\sqrt{5} \text{ OR } x = \sqrt{5}}$$

$$x^2 - 1 = 0$$

$$(x+1)(x-1) = \emptyset$$

$$x+1 = \emptyset \text{ OR } x-1 = 0$$

$$\boxed{x = -1 \text{ OR } x = 1}$$

$$x^2 - 9 = 0$$

$$(x+3)(x-3) = \emptyset$$

$$x+3 = 0 \text{ OR } x-3 = \emptyset$$

$$\boxed{x = -3 \text{ OR } x = 3}$$

$$x^2 - 25 = 0$$

$$(x+5)(x-5) = \emptyset$$

$$(-\sqrt{3})^2 = (-\sqrt{3})(-\sqrt{3})$$

$$x^2 - 3 = 0$$

$$(x+\sqrt{3})(x-\sqrt{3}) = 0$$

$$x+\sqrt{3} = \emptyset \text{ OR } x-\sqrt{3} = \emptyset$$

$$\boxed{x = -\sqrt{3} \text{ OR } x = \sqrt{3}}$$

$$x^2 - 5 = 0$$

$$(x+\sqrt{5})(x-\sqrt{5}) = \emptyset$$

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