

Algebra I Lesson #1 Unit 12
Class Worksheet #1
For Worksheets #1 & #3

Solving Second Degree Equations With 1 Variable

Solving Second Degree Equations With 1 Variable

The Factoring Method

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $x^2 - 5x + 4 = 0$

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $x^2 - 5x + 4 = 0$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $x^2 - 5x + 4 = 0$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

This equation is already in standard form.

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $x^2 - 5x + 4 = 0$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)**

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x \quad)(x \quad) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)**

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)**

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

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(Factor the polynomial $ax^2 + bx + c$.)

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 = 0 \quad \text{or} \quad x - 4 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

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Solving Second Degree Equations With 1 Variable

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$$1. \quad x^2 - 5x + 4 = 0$$

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(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 = 0 \quad \text{or} \quad x - 4 = 0$$

$$x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 = 0 \quad \text{or} \quad x - 4 = 0$$

$$x = 1$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 = 0 \quad \text{or} \quad x - 4 = 0$$

$$x = 1 \quad \text{or} \quad x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$1. \quad x^2 - 5x + 4 = 0$$

$$(x - 1)(x - 4) = 0$$

$$x - 1 = 0 \quad \text{or} \quad x - 4 = 0$$

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Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in ‘factored form’.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the ‘zero property of multiplication.’
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x \quad)(x \quad) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

$$x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

$$x = -9$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

$$x = -9 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

$$x = -9 \quad \text{or} \quad x =$$

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(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

$$x = -9 \quad \text{or} \quad x = 2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$2. \quad x^2 + 7x - 18 = 0$$

$$(x + 9)(x - 2) = 0$$

$$x + 9 = 0 \quad \text{or} \quad x - 2 = 0$$

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(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the 'zero property of multiplication.'
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x \quad)(x \quad) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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$$3. \quad 7x^2 - 30x + 8 = 0$$

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$$7x - 2 = 0 \quad \text{or}$$

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The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x =$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x = 2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

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$$7x = 2$$

$$x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x = 2$$

$$x = 2/7$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x = 2$$

$$x = 2/7 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x = 2$$

$$x = 2/7 \quad \text{or} \quad x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x = 2$$

$$x = 2/7 \quad \text{or} \quad x = 4$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$3. \quad 7x^2 - 30x + 8 = 0$$

$$(7x - 2)(x - 4) = 0$$

$$7x - 2 = 0 \quad \text{or} \quad x - 4 = 0$$

$$7x = 2$$

$$x = 2/7 \quad \text{or} \quad x = 4$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in ‘factored form’.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the ‘zero property of multiplication.’
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x \quad)(x \quad) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

$$x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

$$x = 3/5$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

$$x = 3/5 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

$$x = 3/5 \quad \text{or} \quad x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

$$x = 3/5 \quad \text{or} \quad x = -2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$4. \quad 5x^2 + 7x - 6 = 0$$

$$(5x - 3)(x + 2) = 0$$

$$5x - 3 = 0 \quad \text{or} \quad x + 2 = 0$$

$$5x = 3$$

$$x = 3/5 \quad \text{or} \quad x = -2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication'.
If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x($$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication'.
If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the 'zero property of multiplication.
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

$$x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

$$x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

$$x = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

$$x = 0 \quad \text{or} \quad x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

$$x = 0 \quad \text{or} \quad x = -2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$5. \quad 5x^2 + 10x = 0$$

$$5x(x + 2) = 0$$

$$5x = 0 \quad \text{or} \quad x + 2 = 0$$

$$x = 0 \quad \text{or} \quad x = -2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication'.
If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x($$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

$$4x =$$

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Solving Second Degree Equations With 1 Variable

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

$$4x = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

$$4x = 0 \quad \text{or} \quad 3x - 2 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

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$$4x = 0 \quad \text{or} \quad 3x - 2 = 0$$

$$3x = 2$$

$$x = 0 \quad \text{or} \quad x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

$$4x = 0 \quad \text{or} \quad 3x - 2 = 0$$

$$3x = 2$$

$$x = 0 \quad \text{or} \quad x = 2/3$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$6. \quad 12x^2 - 8x = 0$$

$$4x(3x - 2) = 0$$

$$4x = 0 \quad \text{or} \quad 3x - 2 = 0$$

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Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in ‘factored form’.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the ‘zero property of multiplication.’
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x \quad)(x \quad) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication'.
If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

$$x + 2 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

$$x + 2 = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

$$x + 2 = 0 \quad \text{or} \quad x - 2 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

$$x + 2 = 0 \quad \text{or} \quad x - 2 = 0$$

$$x = -2$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$7. \quad x^2 - 4 = 0$$

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in ‘factored form’.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the ‘zero property of multiplication.’
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x \quad)(10x \quad) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

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$$10x + 7 = 0 \quad \text{or}$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 =$$

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The Factoring Method

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The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

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(Factor the polynomial $ax^2 + bx + c$.)

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 = 0$$

$$10x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 = 0$$

$$10x = -7$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 = 0$$

$$10x = -7$$

$$x =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 = 0$$

$$10x = -7$$

$$x = -7/10$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 = 0$$

$$10x = -7 \qquad 10x =$$

$$x = -7/10$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$8. \quad 100x^2 - 49 = 0$$

$$(10x + 7)(10x - 7) = 0$$

$$10x + 7 = 0 \quad \text{or} \quad 10x - 7 = 0$$

$$10x = -7 \qquad 10x = 7$$

$$x = -7/10$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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Solving Second Degree Equations With 1 Variable

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

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Solving Second Degree Equations With 1 Variable

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.
(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication'.
If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

$$(x - 6)(x - 6) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

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Solving Second Degree Equations With 1 Variable

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Solving Second Degree Equations With 1 Variable

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The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

$$(x - 6)(x - 6) = 0$$

$$x - 6 = 0 \quad \text{or}$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

$$(x - 6)(x - 6) = 0$$

$$x - 6 = 0 \quad \text{or} \quad x - 6 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

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Solving Second Degree Equations With 1 Variable

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If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$9. \quad x^2 - 12x + 36 = 0$$

$$(x - 6)(x - 6) = 0$$

$$x - 6 = 0 \quad \text{or} \quad x - 6 = 0$$

Don't write the same equation twice.

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

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(Factor the polynomial $ax^2 + bx + c$.)

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

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Solving Second Degree Equations With 1 Variable

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$$9. \quad x^2 - 12x + 36 = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

**Step 2: Write the equation in ‘factored form’.
(Factor the polynomial $ax^2 + bx + c$.)**

**Step 3: Apply the ‘zero property of multiplication.’
If $pq = 0$, then $p = 0$ or $q = 0$.**

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

$$(5x + 3)(5x + 3) = 0$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in 'factored form'.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the 'zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

$$(5x + 3)(5x + 3) = 0$$

$$5x + 3 =$$

Step 1: Write the equation in standard form: $ax^2 + bx + c = 0$

Step 2: Write the equation in ‘factored form’.

(Factor the polynomial $ax^2 + bx + c$.)

Step 3: Apply the ‘zero property of multiplication.

If $pq = 0$, then $p = 0$ or $q = 0$.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

$$(5x + 3)(5x + 3) = 0$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

$$(5x + 3)(5x + 3) = 0$$

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$$5x =$$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

$$(5x + 3)(5x + 3) = 0$$

$$5x + 3 = 0$$

$$5x = -3$$

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If $pq = 0$, then $p = 0$ or $q = 0$.

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Solving Second Degree Equations With 1 Variable

The Factoring Method

$$10. \quad 25x^2 + 30x + 9 = 0$$

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$$x =$$

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If $pq = 0$, then $p = 0$ or $q = 0$.

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$$(5x + 3)(5x + 3) = 0$$

$$5x + 3 = 0$$

$$5x = -3$$

$$x = -3/5$$

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Good luck on your homework !!

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