Algebra I Lesson #2 Unit 12
Class Worksheet #2
For Worksheets #2 & #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. $2x^2 = 13x + 7$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x -$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$2x^2 - 13x - 7 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x \quad)(x \quad) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$2x^2 - 13x - 7 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 =$

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

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Solving Second Degree Equations With 1 Variable

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$2x^2 - 13x - 7 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$2x^2 - 13x - 7 = 0$

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$2x + 1 = 0$ or $x - 7 =$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

$2x =$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

$2x = -1$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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$(2x + 1)(x - 7) = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

$2x = -1$

$x = -1/2$

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

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

$2x = -1$

$x = -1/2$ or $x =$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

$2x = -1$

$x = -1/2$ or $x = 7$

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

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

1. $2x^2 = 13x + 7$

$2x^2 - 13x - 7 = 0$

$(2x + 1)(x - 7) = 0$

$2x + 1 = 0$ or $x - 7 = 0$

$2x = -1$

$x = -1/2$ or $x = 7$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 +$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$6x^2 + 13x - 5 = 0$

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

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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

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x \quad)(2x \quad) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 =$

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

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Solving Second Degree Equations With 1 Variable

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2. $6x^2 + 13x = 5$

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$(3x - 1)(2x + 5) = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 =$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x =$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$

$x =$

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

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Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$

$x = 1/3$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$ $2x =$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$ $\qquad$ $2x = -5$

$x = 1/3$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

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$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$ $\quad 2x = -5$

$x = 1/3$ or $x =$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$ $\quad 2x = -5$

$x = 1/3$ or $x = -5/2$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

2. $6x^2 + 13x = 5$

$6x^2 + 13x - 5 = 0$

$(3x - 1)(2x + 5) = 0$

$3x - 1 = 0$ or $2x + 5 = 0$

$3x = 1$ $\quad 2x = -5$

$x = 1/3$ or $x = -5/2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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

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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

The Factoring Method

3. $x^2 = 9$

$x^2 -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

$x + 3 =$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

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$x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

$x + 3 = 0$ or $x - 3 = 0$

$x = -3$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$x = -3$ or $x =$

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

3. $x^2 = 9$

$x^2 - 9 = 0$

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

x^2

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x($

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9)$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or $x - 9 =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or $x - 9 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or $x - 9 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or $x - 9 = 0$

$x = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or $x - 9 = 0$

$x = 0$ or $x = 9$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

4. $x^2 = 9x$

$x^2 - 9x = 0$

$x(x - 9) = 0$

$x = 0$ or $x - 9 = 0$

$x = 0$ or $x = 9$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x +$

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5 = 0$

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5 = 0$

$(x - 1)(x - 5) = 0$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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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

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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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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$(x - 1)(x - 5) = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$(x - 1)(x - 5) = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5 = 0$

$(x - 1)(x - 5) = 0$

$x - 1 = 0$ or $x - 5 = 0$

$x = 1$ or

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Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5 = 0$

$(x - 1)(x - 5) = 0$

$x - 1 = 0$ or $x - 5 = 0$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5 = 0$

$(x - 1)(x - 5) = 0$

$x - 1 = 0$ or $x - 5 = 0$

$x = 1$ or $x = 5$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

5. $x^2 + 5 = 6x$

$x^2 - 6x + 5 = 0$

$(x - 1)(x - 5) = 0$

$x - 1 = 0$ or $x - 5 = 0$

$x = 1$ or $x = 5$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x +$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

$(4x \quad)(2x \quad) = 0$

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

$(4x - 3)(2x - 5) = 0$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

$(4x - 3)(2x - 5) = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

$(4x - 3)(2x - 5) = 0$

$4x - 3 =$

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

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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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$4x - 3 = 0$ or $2x - 5 = 0$

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

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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

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

$(4x - 3)(2x - 5) = 0$

$4x - 3 = 0$ or $2x - 5 = 0$

$4x = 3$

$x = 3/4$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

$(4x - 3)(2x - 5) = 0$

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$4x = 3$ $\qquad$ $2x =$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$8x^2 - 26x + 15 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$8x^2 - 26x + 15 = 0$

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$4x = 3$ $\quad$ $2x = 5$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

6. $8x^2 + 15 = 26x$

$8x^2 - 26x + 15 = 0$

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$4x = 3$ $\quad$ $2x = 5$

$x = 3/4$ or $x = 5/2$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

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

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Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

$15x^2 + x -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

$15x^2 + x - 2$

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

$15x^2 + x - 2 = 0$

$(3x \quad)(5x \quad) = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

$15x^2 + x - 2 = 0$

$(3x - 1)(5x + 2) = 0$

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

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

7. $15x^2 + x = 2$

$15x^2 + x - 2 = 0$

$(3x - 1)(5x + 2) = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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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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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$15x^2 + x - 2 = 0$

$(3x - 1)(5x + 2) = 0$

$3x - 1 = 0$ or $5x + 2 = 0$

$3x = 1$

$x = 1/3$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$15x^2 + x - 2 = 0$

$(3x - 1)(5x + 2) = 0$

$3x - 1 = 0$ or $5x + 2 = 0$

$3x = 1$ $\qquad$ $5x = -2$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$3x = 1$ $\quad$ $5x = -2$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$15x^2 + x - 2 = 0$

$(3x - 1)(5x + 2) = 0$

$3x - 1 = 0$ or $5x + 2 = 0$

$3x = 1$ $\quad$ $5x = -2$

$x = 1/3$ or $x = -2/5$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$16x^2 - 8x = 15$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x \quad)(4x \quad) = 0$

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 =$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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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

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$16x^2 - 8x = 15$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$

$x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$

$x = 5/4$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$ $\qquad$ $4x =$

$x = 5/4$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$ $\qquad$ $4x = -3$

$x = 5/4$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$ $\quad$ $4x = -3$

$x = 5/4$ or

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

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$4x = 5$ $\quad$ $4x = -3$

$x = 5/4$ or $x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

8. $8x(2x - 1) = 15$

$16x^2 - 8x = 15$

$16x^2 - 8x - 15 = 0$

$(4x - 5)(4x + 3) = 0$

$4x - 5 = 0$ or $4x + 3 = 0$

$4x = 5$ $\quad$ $4x = -3$

$x = 5/4$ or $x = -3/4$

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

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

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

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$16x^2 - 8x = 15$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x -$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

x^2

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Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 +$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$x^2 + 7x - 3 = 6x - 3$

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Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1)$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$x^2 + 7x - 3 = 6x - 3$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

$x = 0$ or $x + 1 = 0$

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Solving Second Degree Equations With 1 Variable

The Factoring Method

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$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

$x = 0$ or $x + 1 = 0$

$x = 0$

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Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

$x = 0$ or $x + 1 = 0$

$x = 0$ or

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

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Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

$x = 0$ or $x + 1 = 0$

$x = 0$ or $x =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

$x = 0$ or $x + 1 = 0$

$x = 0$ or $x = -1$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

9. $x^2 + 7x - 3 = 3(2x - 1)$

$x^2 + 7x - 3 = 6x - 3$

$x^2 + x = 0$

$x(x + 1) = 0$

$x = 0$ or $x + 1 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 =$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x +$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x + 10$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x + 10$

$4x^2$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x + 10$

$4x^2 - 9$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x + 10$

$4x^2 - 9 = 0$

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

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

Step 3: Apply the 'zero property of multiplication.

Step 4: Solve each equation.

Solving Second Degree Equations With 1 Variable

The Factoring Method

10. $4x^2 + 5x + 1 = 5(x + 2)$

$4x^2 + 5x + 1 = 5x + 10$

$4x^2 - 9 = 0$

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

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