

Elementary Algebra Study Guide: 20 Sections

SOLVING APPLICATIONS

Strategy for solving word problems

1. Analyze the problem: Read the problem carefully.
2. Visualize the facts of the problem if possible. Use diagrams.
3. Define the variables: Identify the unknown quantity (or quantities) and let x , y , z , etc. = something.
4. Write an equation: Use the defined variables.
5. Solve the equation: Make sure you have answered the question.
6. Check your answer(s): Use the original words of the problem.

Examples

1. The sum of three times a number and 11 is -13. Find the number.

Let x = the number

$$3x + 11 = -13$$

$$3x + 11 - 11 = -13 - 11$$

$$3x = -24$$

$$x = -8$$

Solution: The number is -8

$$\text{Check: } 3(-8) + 11 = -24 + 11 = -13$$

$$-13 = -13$$

2. Together, a car and a house cost \$45,000. The house costs five times as much as the car cost. The house costs _____.

Let x = the cost of the car

$5x$ = the cost of the house

$$x + 5x = 45,000$$

$$6x = 45,000$$

$$x = 7,500$$

$$5x = 5(7,500) = 37,500$$

Solution: The car costs \$7,500.
The house costs \$37,500.

$$\text{Check: } 7,500 + 37,500 = 45,000$$

$$7,500 = 7,500$$

FINDING THE EQUATION OF A LINE

Definition

Find the equation of the line that satisfies the given conditions.
Write the equation in both standard form and slope-intercept form.

$$1. \text{ slope } = \frac{1}{2} \quad \text{the line passes through } (3, 4)$$

$$2. \text{ slope } = -\frac{1}{2} \quad \text{the line passes through } (3, 4)$$

$$3. \text{ slope } = 1 \quad y\text{-intercept } = 4$$

$$4. \text{ y-intercept } = 2 \quad \text{the line passes through } (3, 4)$$

$$5. \text{ slope is undefined and passing through } (-1, 3)$$

$$6. \text{ slope } = -\frac{1}{2} \quad y\text{-intercept } = 4$$

$$7. \text{ y-intercept } = 2 \quad \text{the line passes through } (3, 4)$$

$$8. \text{ vertical line passing through } (3, 4)$$

$$9. \text{ line passing through } (3, 2) \text{ and } (5, 4)$$

$$10. \text{ line passing through } (-1, 4) \text{ and } (3, -4)$$

$$11. \text{ line passing through } (4, -5) \text{ and } (4, -7)$$

$$12. \text{ the parabola } 3x + y + 2 = 0 \text{ and passing through } (3, 3)$$

$$13. \text{ the passing through } (3, -5) \text{ and parallel to } y = 2x + 4$$

$$14. \text{ the perpendicular to } 3x + y + 2 = 0 \text{ and passing through } (3, 7)$$

Answers

$$1. y - 3 = \frac{1}{2}(x - 4)$$

$$y - 3 = \frac{1}{2}x - 2$$

$$y = \frac{1}{2}x + 1$$

$$y - 1 = \frac{1}{2}(x - 0)$$

$$y = \frac{1}{2}x + 1$$

$$y = 2x + 4$$

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FACTORS

Factoring the Difference of Two Squares

Example: Factor $x^2 - 36$

STEP 1

1. Are there any common factors?
2. Determine if the binomial is the Difference of Two Squares.
 - Is the first term a perfect square? x^2
 - Is the second term a perfect square? 36
 - Is this the difference of the two terms? $x^2 \square 36$

STEP 2

3. To factor the Difference of Two Squares:
 - Find the square root of the first term. x
 - Find the square root of the second term. 6

Write the factored form.

Answer:

$$x^2 - 36 = (x + 6)(x - 6)$$

$$(x + 6)(x - 6)$$

Check your work.

$$(x + 6)(x - 6) = x^2 - 36$$

NOTES

Yes

$$\text{Yes, } x^2 = x^2$$

$$\text{Yes, } 36 = 6^2$$

Yes, " $\square$ " means the difference of the two terms.

$$\sqrt{x^2} = x$$

$$\sqrt{36} = 6$$

The factors are the product of the sum (+) and difference (-) of the terms' square roots.

Example: Factor $16x^2 - 120x + 225$

STEP 1

1. Are there any common factors?
2. Is the binomial or trinomial the Difference of Two Squares?
 - Is the first term a perfect square? $16x^2$
 - Is the second term a perfect square? 225
 - Is this the difference of the two terms? $16x^2 \square 225$

STEP 2

3. To factor the Difference of Two Squares:
 - Find the square root of the first term. $4x$
 - Find the square root of the second term. 15

Write the factored form.

Answer:

$$16x^2 - 120x + 225 = (4x - 15)^2$$

$$(4x - 15)(4x - 15)$$

$$(4x - 15)(4x - 15) = 16x^2 - 120x + 225$$

NOTES

Yes

$$\text{Yes, } 16x^2 = 16x^2$$

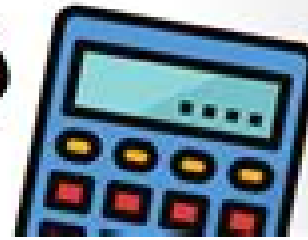
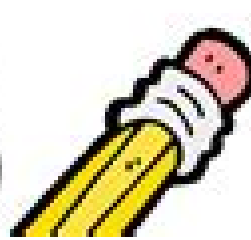
$$\text{Yes, } 225 = 15^2$$

Yes, " $\square$ " means the difference of the two terms.

$$\sqrt{16x^2} = 4x$$

$$\sqrt{225} = 15$$

The factors are the product of the sum (+) and difference (-) of the terms' square roots.



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Molly O'Neill, Julie Miller



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