

## Chapter 4 Quadratic Functions and Equations

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

What are the vertex and the axis of symmetry of the equation?

\_\_\_ 1.  $y = 2x^2 + 8x - 10$

a. vertex:  $(-2, -18)$   
axis of symmetry:  $x = -2$

c. vertex:  $(-2, -18)$   
axis of symmetry:  $x = -18$

b. vertex:  $(-2, 18)$   
axis of symmetry:  $y = -2$

d. vertex:  $(2, -18)$   
axis of symmetry:  $x = -18$

\_\_\_ 2. Identify the vertex and the axis of symmetry of the graph of the function  $y = 2(x + 2)^2 - 4$ .

a. vertex:  $(-2, 4)$ ;  
axis of symmetry:  $x = -2$

b. vertex:  $(2, -4)$ ;  
axis of symmetry:  $x = 2$

c. vertex:  $(-2, -4)$ ;  
axis of symmetry:  $x = -2$

d. vertex:  $(2, 4)$ ;  
axis of symmetry:  $x = 2$

What is the vertex form of the equation?

\_\_\_ 3.  $y = x^2 - 2x + 8$

a.  $y = (x + 1)^2 + 7$

c.  $y = (x - 1)^2 + 7$

b.  $y = (x + 1)^2 - 7$

d.  $y = (x - 1)^2 - 7$

Rewrite the equation in vertex form. Name the vertex and  $y$ -intercept.

\_\_\_ 4.  $y = x^2 - 12x + 34$

a.  $y = (x - 6)^2 - 2$

c.  $y = (x - 12)^2 + 40$

vertex:  $(6, -2)$   
 $y$ -intercept:  $(0, 34)$

vertex:  $(-12, -2)$   
 $y$ -intercept:  $(0, -2)$

# Chapter 4 Quadratic Functions And Equations

## Homework

**H Kauffman**



**Chapter 4 Quadratic Functions And Equations Homework:**

## Decoding **Chapter 4 Quadratic Functions And Equations Homework**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 4 Quadratic Functions And Equations Homework**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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