

## FIT Semester II Review

## Quadratic Functions- Writing Equations

1. Write the equation of a quadratic function in standard form,  $y = ax^2 + bx + c$ , with the given specifications.

$$a = 3$$

$$b = -1$$

$$c = -5$$

$$y = 3x^2 - x - 5$$

2. Write the equation of a quadratic function in vertex form,  $y = a(x-h)^2 + k$ , with the given specifications.

$$a = -\frac{1}{2}$$

Vertex  $(-8, 5)$

$$y = -\frac{1}{2}(x+8)^2 + 5$$

3. The graph of a quadratic function has a vertex at  $(-3, 4)$  and passes through the point  $(-5, -8)$ . Which could be the equation of this quadratic function?

A.  $y = -\frac{3}{16}(x+3)^2 + 4$

C.  $y = 3(x+3)^2 + 4$

B.  $y = \frac{16}{3}(x-3)^2 + 4$

D.  $y = -3(x+3)^2 + 4$

4. The graph of a quadratic function has a vertex at  $(4, -3)$  and passes through the point  $(2, -1)$ . Which could be the equation of this quadratic function?

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

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

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

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

5. Convert each equation from vertex form to standard form.

a)  $f(x) = (x-3)^2 - 4$

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

$$f(x) = x^2 - 3x - 3x + 9 - 4$$

$$f(x) = x^2 - 6x + 5$$

b)  $g(x) = 2(x-7)^2 - 4$

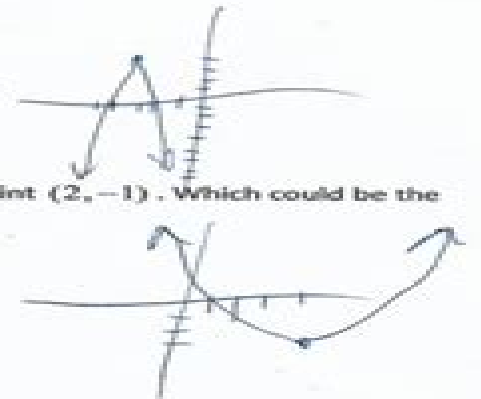
$$g(x) = 2(x-7)(x-7) - 4$$

$$g(x) = 2(x^2 - 7x - 7x + 49) - 4$$

$$g(x) = 2(x^2 - 14x + 49) - 4$$

$$g(x) = 2x^2 - 28x + 98 - 4$$

$$g(x) = 2x^2 - 28x + 94$$



# Unit Quadratic Functions Answer Key

**A Gutmann**



## **Unit Quadratic Functions Answer Key:**

## **Unit Quadratic Functions Answer Key** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Unit Quadratic Functions Answer Key**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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