Class Name *Each multiple choice question is worth 3 points* 1.) The solutions to $a^2 - 10a = 0$ are: (C) 1 and 10 (A) 0 and -10 (D) 1 and -10 (B) 0 and 10 www.myJGD.com 2.) How many *different* solutions does $q^2 - 2q + 1 = 0$ have? (B) none (C) two (A) one (D) infinitely many 3.) Which represents the coordinates of the vertex of the graph $y = x^2 - 6x - 10$? (A) (-6,10) (B) (3,-22) (C) (3,-19) (D) (0,-10) 4.) Which represents the coordinates of the y-intercept of the graph $y = x^2 - 6x - 10$? (A) (-6,10) (B) (3,-22) (C) (3,-19) (D) (0,-10) 5.) Which equation can represent the parabola in the х accompanying diagram? (A) $y = -x^2$ (C) $y = x^2 - 3$ (B) $y = x^2$ (D) $y = -x^2 - 3$ 6.) The coordinates of the turning point of the graph of $y = x^{2} + 4x + q$ are (-2,-7). The value of q is: (A) -1 (B) -2 (C) -3 (D) -17

Quiz #11 - Quadratic Functions

- 7.) The equation $y = x^2 + 3x 18$ is graphed on the set of axes shown. What are the roots of the parabola?
 - (A) -3 and 6 (C) 3 and -6
 - (B) 0 and -1 (D) 3 and -18

- 8.) What are the vertex and the axis of symmetry of the parabola shown in the diagram?
 - (A) The vertex is (-2, -3) and the axis of symmetry is x = -2
 - (B) The vertex is (-2, -3) and the axis of symmetry is y = -2
 - (C) The vertex is (-3, -2) and the axis of symmetry is y = -2
 - (D) The vertex is (-3, -2) and the axis of symmetry is x = -2
- 9.) The roots of the function $f(x) = (x-2)^2 25$ are
 - (A) -3 and 7 (C) -7 and 3
 - (B) -2 and 5 (D) -5 and 2

10.) Which is one of the solutions to the equation $2x^2 = x + 4$?

(A) $\frac{1}{4} - \sqrt{33}$ (C) $-\frac{1}{4} + \sqrt{33}$ (B) $\frac{1 + \sqrt{33}}{4}$ (D) $\frac{-1 - \sqrt{33}}{4}$





11.) Graph the parabola whose equation is $y = x^2 - 2x - 3$ using the table of values. Label the axis of symmetry, the vertex, the y-intercept and the roots. **(20 points)**



Axis of Symmetry	Vertex	Y-Intercept	Roots
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