



Republic of the Philippines  
Department of Education  
Region I  
Division Office - San Carlos City  
**MALACANANG NATIONAL HIGH SCHOOL**  
School Year 2016-2017



Name: \_\_\_\_\_ Gr. & Section: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

**DIAGNOSTIC TEST**  
**GRADE 9 MATHEMATICS**

General Direction: Observe honesty, orderliness and neatness of your work.  
Strictly follow the instruction.

Part I: Instruction: Choose the best answer...

- An equation of second degree is called...  
a. Linear                      b. Quadratic                      c. Cubic                      d. exponential
- What must be added to  $x^2 - 10x$  to make it perfect square trinomial?  
a. 5                      b. -5                      c. 25                      d. -25
- What are the values of  $a$ ,  $b$  and  $c$  in the equation  $3x = x^2 - 1$ ?  
a.  $a = -1; b = -1; c = 3$                       b.  $a = 1; b = -3; c = -1$                       c.  $a = 1; b = 3; c = 1$                       d.  $a = -1; b = -3; c = -1$
- Determine the opening of the parabola of the function  $f(x) = 3(x+2)^2$   
a. upward                      b. downward                      c. to the right                      d. to the left
- What is the first step when solving a quadratic equation by completing the square?  
a. take square root of both sides  
b. get constant to one side and divide by the coefficient of the squared term  
c. solve for  $x$   
d. take one half the coefficient of  $x$ , square it, and add it to both sides. (This is the second step)
- What is the product of the roots of the quadratic equation that has roots 2 and -3.  
a. -6                      b. -1                      c. 5                      d. 6
- What is the graph of a quadratic function?  
a. Line                      b. cubic                      c. parabola                      d. bar graph
- Write the equation of the graph given  $a=2$  and vertex  $(1, 3)$ .  
a.  $y = 2(x-1)^2 + 3$                       b.  $y = 2(x-1)^2 - 3$                       c.  $y = 2(x+1)^2 + 3$                       d.  $y = 2(x+1)^2 - 3$
- $b^2 - 4ac$  is used to  
a. find the  $y$ -intercept                      c. find the number of  $x$  intercepts or nature of roots  
b. determine the direction the graph opens                      d. determine the  $x$ -value of the vertex
- In  $y = 4(x + 3)^2 - 6$ , when transform into standard form, the equation becomes  
a.  $y = x^2 + 3x - 6$                       b.  $y = 4x^2 + 24x + 36$                       c.  $y = 4x^2 + 6x - 3$                       d.  $y = 4x^2 + 24x + 30$
- Find the quadratic equation that has roots 2 and -3.  
a.  $y = x^2 - x - 6$                       b.  $y = 2x^2 + x + 6$                       c.  $y = x^2 + x - 6$                       d.  $y = x^2 - x + 6$
- The length of a garden is 5 longer than its width and the area is  $14 \text{ m}^2$ . How long is the garden?  
a. 9 m                      b. 7 m                      c. 5 m                      d. 2 m
- The discriminant of a quadratic equation is -8. What is the nature of its roots?  
a. imaginary and equal                      b. imaginary and unequal                      c. real and equal                      d. real and unequal
- "The graph of  $f(x) = x^2$  shifted 3 units upward", which of the following functions best describes the graph?  
a.  $f(x) = x^2 - 3$                       b.  $f(x) = x^2 + 3$                       c.  $f(x) = 3x^2$                       d.  $f(x) = -3x^2$
- Identify a possible graph for function  $f$  given by  $f(x) = x^2 - 3$



- The statement "The longer the time a candle is lighted, the shorter it becomes", represents which variation?  
a. direct variation                      b. direct square variation                      c. inverse variation                      d. joint variation

# Grade 9 Diagnostic Test

**Michael Rajnik**



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