Post Test – Quarter 1 Week 1 – Illustration of Quadratic Equation

Directions Choose the letter that you think best answers the question. Type your answer on the box provided before the number

1. It is a polynomial equation of degree two that can be written in the form $ax^2 + bx + c = 0$, where a, b, and c are real numbers and $a \neq 0$.
   a. Linear Equation
   b. Linear Inequality
   c. Quadratic Equation
   d. Quadratic Inequality

2. Which of the following is a quadratic equation?
   a. $3s^2 + s - 4$
   b. $m^2 - 8m - 1 = 0$
   c. $2x - 1 = 5$
   d. $5y^2 + 4y \geq 7$

3. In the quadratic equation $2x^2 - 9x - 5 = 0$, which is the quadratic term?
   a. $2x^2$ b. x^2 c. $-9x$ d. -5

4. In the quadratic equation $2x^2 - 9x - 5 = 0$, which is the linear term?
   a. $2x^2$ b. x^2 c. $-9x$ d. -5

5. In the quadratic equation $2x^2 - 9x - 5 = 0$, which is the constant term?
   a. $2x^2$ b. x^2 c. $-9x$ d. -5

6. In the quadratic equation $x^2 + 8x - 2 = 0$, what are the values of a, b, and c?
   a. $a = 0, b = 3, c = -1$
   b. $a = 1, b = 8, c = -2$
   c. $a = -3, b = 0, c = -1$
   d. $a = 3, b = 0, c = 1$

7. In the quadratic equation $3x^2 - 1 = 0$, what are the values of a, b, and c?
   a. $a = 0, b = 3, c = -1$
   b. $a = 3, b = 0, c = -1$
   c. $a = -3, b = 0, c = -1$
   d. $a = 3, b = 0, c = 1$

8. In the quadratic equation $(y + 5)(y - 5) = 4$, what are the values of a, b, and c?
   a. $a = 1, b = 5, c = -5$
   b. $a = 1, b = -5, c = 5$
   c. $a = 1, b = 0, c = -29$
   d. $a = 1, b = 0, c = 25$

9. What is the standard form of the quadratic equation $3x(x - 3) = 7$?
   a. $3x^2 - 9x = 7$
   b. $3x^2 - 3x - 7 = 0$
   c. $3x^2 - 9x + 7 = 0$
   d. $3x^2 - 9x - 7 = 0$

10. What is the standard form of the quadratic equation $2x + (x - 4)(x + 1) = 9$?
    a. $x^2 - x - 13 = 0$
    b. $x^2 + x + 13 = 0$
    c. $x^2 - 5x + 5 = 0$
    d. $x^2 - 5x - 13 = 0$