

First Final Examination
Mathematics Grade 9
Copper

Test I. Multiple Choice

Direction: Choose the letter of the correct answer and write it in your answer sheet.

1. An algebraic expression consisting of one term or sum of terms is called _____.
a. monomial b. binomial c. trinomial d. polynomial
2. What do you call of a polynomial equation of degree two that can be written in the form of $ax^2 + bx + c = 0$?
a. linear equation b. linear inequality c. quadratic equation d. quadratic function
3. Which of the following is a quadratic equation?
a. $2a^2 + 4b = 1$ b. $3t - 7 = 2$ c. $m^2 + 5m = 4$ d. $2x^2 - 7x \geq 3$
4. In the quadratic equation $3x^2 + 7x - 4 = 0$ which is the quadratic term?
a. x^2 b. $7x$ c. $3x^2$ d. -4
5. How many real roots does the quadratic equation $x^2 - 6x + 8 = 0$ have?
a. 0 b. 1 c. 2 d. 3
6. What is the product of $-3(x^2 + 4)$?
a. $-3x^2 - 4$ b. $-3x^2 + 4$ c. $3 - 3x^2 + 12$ d. $x^2 + 12$
7. What is the sum of $6x^2 - 3x + 1$ and $2x^2 + 5x - 3$?
a. $8x^2 + 2x + 4$ b. $8x^2 + 2x - 2$ c. $8x^4 - 8x^2 - 2$ d. $8x^4 + 2x^2 - 2$
8. In multiplying $(x - 5)$ and $(2x + 4)$, the product of the inner term is _____.
a. $2x^2$ b. $-10x$ c. $4x$ d. -20
9. In the equation, $ax^2 + bx + c = 0$, which is the constant term?
a. ax^2 b. bx c. x d. c
10. Which of the following is not quadratic equation?
a. $8k - 3 = 12$ b. $6p^2 - p = 10$ c. $x^2 = 144$ d. $2m + n = 0$
11. The standard form of the quadratic equation $2x(x - 5) = 6$ is _____.
a. $2x^2 - 5x + 6 = 0$ b. $3x^2 - 10x - 6 = 0$ c. $2x^2 - 10x = 6$ d. $2x^2 - 10x - 6 = 0$
12. In the quadratic equation $(x - 3)^2 = 1$ the value of b is _____.
a. -3 b. -4 c. -5 d. -6
13. $\sqrt{8}$ is equal to _____.

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