



FIRST SUMMATIVE EVALUATION

MATHEMATICS 9

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Name: _____ Rating: / 50
 Grade and Section: _____ Date: _____

TEST I.

A. Write A if the sequence is arithmetic, G if it is geometric, and N if it is neither. Determine d or r where appropriate.

_____ 1-2. 0, 4, 8, 12, ... $d =$ $r =$

_____ 3-4. -7, -11, -15, -19, ... $d =$ $r =$

_____ 5-6. $\frac{1}{4}, \frac{1}{2}, 1, 2, \dots$ $d =$ $r =$

_____ 7-8. $1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots$ $d =$ $r =$

_____ 9-10. $3x, 5x, 7x, 9x, \dots$ $d =$ $r =$

B. Complete the table. Determine the Degree, leading coefficient, and number of terms of the given polynomials if it is not a polynomial write NP.

Given	Degree of the polynomials	Leading Coefficient	Number of Terms
$12x^4 - 16x^5 + 25x^2$	11.	12.	13.
$\frac{4}{5}x^6 + 2x - 1$	14.	15.	16.
$7x^{\sqrt{3}} + 2x - 15$	17.	18.	19.
$\sqrt{144}x^7 + 2x^5 - 3x^3 + x - 11$	20.	21.	22.
11	23.	24.	25.

C. Multiple Choice. Identify the choice that best completes the statement or answers the question.

- ___ 26. The sequence 2.5, 5, 7.5, 10,... is
a. arithmetic b. neither a or b c. geometric
- ___ 27. The sequence 1, 3, 7, 15,... is
a. geometric b. neither a or b c. arithmetic
- ___ 28. What is the next number in the sequence 10, 30, 90, 270, ...?
a. 450 b. 360 c. 400 d. 810
- ___ 29. The sequence 8, 4, 2, 0,... is
a. arithmetic b. geometric c. neither a or b
- ___ 30. What is the next number in the sequence 10, 14, 18, 22, ...?
a. 27 b. 2560 c. 44 d. 26

"Integrity is telling myself the truth. And honesty is telling the truth to other people."

- Spencer Johnson, American Author

*****END OF EXAM*****