

Advanced Math

9a-3

Geometric Sequences

Geometric Sequence -

Determine whether or not the sequence is geometric. (pg 735)

1) 5, 15, 45, 135, . . .

3) 3, 12, 21, 30, . . .

n th term of a Geometric Sequence:

Write the first five terms of the geometric sequence.

11) $a_1 = 2, r = 3$

Sum of a geometric sequence:

Evaluate.

59)
$$\sum_{n=0}^{20} 3\left(\frac{3}{2}\right)^n$$

Sum of an infinite geometric series:

Evaluate.

$$81) \sum_{n=0}^{\infty} \left(\frac{1}{2}\right)^n$$

Assignment: pg. 726 2-26 every 4th, 28-38 even, 56-66 even, 82-92 even.
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