

Name : _____

Evaluate: Geometric Series

Mixed: S4

Evaluate each geometric series.

1) $\sum_{z=1}^9 (-5 \cdot 2^{z+1})$

2) $\frac{1}{7} + \frac{5}{7} + \frac{25}{7} + \dots + \frac{3125}{7}$

3) $a_1 = \sqrt{7}, r =$

$= -4, n = 8$

5) $-0.7 + 4.9 -$

$r = -1$

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7) $a_1 = 7, r = -4, n = 11$

8) $9 + 81 + 729 + \dots + 59049$