

Name : _____

Evaluate: Geometric Series

Mixed: S5

Evaluate each geometric series.

1) $\sqrt{5} + 2\sqrt{5} + 4\sqrt{5} + \dots + 128\sqrt{5}$

2) $\sum_{s=1}^8 (9.7 \cdot 3^s)$

3) $a_1 = 8, r = -\frac{1}{2}$

$31 + \dots + 531441$

5) $\sum_{t=1}^{10} (-3)^{t+1}$

$r = -5, n = 6$

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7) $-3 + 24 - 192 + \dots - 786432$

8) $a_1 = \frac{1}{2}, r = 6, n = 5$