

Name : _____

Evaluate: Geometric Series

Mixed: S1

Evaluate each geometric series.

1) $a_1 = -10, r = -6, n = 7$

2) $\sum_{k=1}^{15} (6 \cdot 2^{k-1})$

3) $8 + 88 + 968 + \dots$

$= -4, n = 9$

5) $\sum_{m=1}^6 \left(\frac{3}{4}\right)^m$

$= 108 - \dots - 26244$

7) $\sqrt{11} + 2\sqrt{11} + 4\sqrt{11} + \dots + 16\sqrt{11}$

8) $a_1 = \frac{6}{5}, r = -\frac{1}{3}, n = 10$

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Evaluate: Geometric Series

Evaluate each geometric series.

1) $a_1 = -10, r = -6, n = 7$

-399910

2) $\sum_{k=1}^{15} (6 \cdot 2^{k-1})$

196602

3) $8 + 88 + 968$

1288**PREVIEW**

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$= -4, n = 9$

86.1

5) $\sum_{m=1}^6 \left(\frac{3}{4}\right)^m$

 $\frac{10101}{4096}$

$- 108 - \dots - 26244$

360

7) $\sqrt{11} + 2\sqrt{11} + 4\sqrt{11} + \dots + 16\sqrt{11}$

 $31\sqrt{11}$

8) $a_1 = \frac{6}{5}, r = -\frac{1}{3}, n = 10$

 $\frac{29524}{32805}$