

Name : _____

Geometric Series

Mixed: S4

Determine the number of terms(n) in each geometric series.

1) $a_1 = 114, r = 2, S_n = 466830$

2) $\sum_{k=1}^n (-2.5 \cdot 5^{k+1}) = -6103500$

3) $\frac{8}{5} - \frac{2}{5} + \frac{1}{10} - \dots$

PREVIEW

$S_n = 39190.9$

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5) $2 + 14 + 98 + \dots$

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$S_n = -21846\sqrt{2}$

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7) $a_1 = -2.3, r = 4, S_n = -50243.5$

8) $-7 + 35 - 175 + \dots; S_n = -3647$