

Name : _____

Geometric Series

Mixed: S2

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

1) $\sum_{c=1}^n (-4)^{c-1} = 838861$

2) $a_1 = \frac{18}{11}, r = \sqrt{3}, S_n = \frac{234(\sqrt{3} + 1)}{11}$

3) $-5 - 30 - 180 - \dots$

5538

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5) $a_1 = 20, r = -5,$

$\dots; S_n = 78124$

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7) $2\sqrt{5} - 8\sqrt{5} + 32\sqrt{5} - \dots; S_n = -419430\sqrt{5}$

8) $a_1 = -1.1, r = 3, S_n = -292292$