

Name : _____

T2S4

Geometric Series

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

1) $\sum_{s=1}^n 15^{s+1} = 813600$

2) $\sum_{b=1}^n 8^b = 2396744$

3) $\sum_{c=1}^n \left(\frac{9}{7}\right) \cdot (\sqrt{2})^c$

$\dots)^{p+1} = 4194320$

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5) $\sum_{h=1}^n (0.3 \cdot 2^h)$

$\dots-3)^{q-1} = -398583$

7) $\sum_{k=1}^n \left(-\frac{7}{4}\right) \cdot 8^{k-1} = -\frac{262143}{4}$

8) $\sum_{m=1}^n (-2)^{m-1} = -349525$