

Name : _____

T2S2

Geometric Series

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

1) $\sum_{b=1}^n (-11 \cdot (-5)^{b+1}) = -3580775$

2) $\sum_{g=1}^n (13 \cdot (-7)^{g-1}) = -191178$

3) $\sum_{m=1}^n (0.2 \cdot (\sqrt{3})^m) = 2015532$

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5) $\sum_{p=1}^n \left(-\frac{7}{3}\right)^p \cdot (-6) = 325520$

7) $\sum_{t=1}^n 10^{t-1} = 1111$

8) $\sum_{v=1}^n \left(\frac{5}{2} \cdot 4^{v-1}\right) = \frac{436905}{2}$