

Name : \_\_\_\_\_

## Geometric Series

T1S2

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

1)  $10 - 60 + 360 - \dots$  upto n terms =  $-2399450$

2)  $13 - 26 + 52 - \dots$  upto n terms =  $-1135953$

3)  $8 + 24 + 72 + \dots$  upto n terms =  $-66430\sqrt{3}$

$\dots$  upto n terms =  $-66430\sqrt{3}$

5)  $\frac{4}{5} + \frac{8}{25} + \frac{16}{125} + \dots$  upto n terms =  $-2278647$

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7)  $-6 - 36 - 216 - \dots$  upto n terms =  $-2015538$

8)  $-\frac{5}{6} + \frac{5}{24} - \frac{5}{96} + \dots$  upto n terms =  $-\frac{349525}{524288}$