

Name : _____

Geometric Series

T1S4

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

1) $\frac{5}{3} - \frac{1}{3} + \frac{1}{15} - \dots$ upto n terms = $\frac{8138021}{5859375}$

2) $6 + 42 + 294 + \dots$ upto n terms = 823542

3) $-6 - 30 - 150 - \dots$ upto

to n terms = 4194305

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5) $\frac{3}{7} + \frac{9}{14} + \frac{27}{28} + \dots$ upto

to n terms = 229369

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7) $3\sqrt{7} + 6\sqrt{7} + 12\sqrt{7} + \dots$ upto n terms = $1572861\sqrt{7}$

8) $-9 + 45 - 225 + \dots$ upto n terms = -2929689