

Name : _____

Geometric Series

T1S1

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

1) $\frac{3}{4} + \frac{3}{10} + \frac{3}{25} + \dots$ upto n terms = $\frac{390369}{312500}$

2) $4 + 4\sqrt{5} + 20 + \dots$ upto n terms = $3124 + 624\sqrt{5}$

3) $-\frac{2}{3} - \frac{4}{3} - \frac{8}{3} - \dots$ upto

upto n terms = 823544

5) $-3 - 12 - 48 - \dots$ upto

upto n terms = 1677722

7) $-7 + 21 - 63 + \dots$ upto n terms = -2790067

8) $12 + 24 + 48 + \dots$ upto n terms = 6291444

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Answer key

T1S1

Geometric Series

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

1) $\frac{3}{4} + \frac{3}{10} + \frac{3}{25} + \dots$ upto n terms = $\frac{390369}{312500}$

n = 8

2) $4 + 4\sqrt{5} + 20 + \dots$ upto n terms = $3124 + 624\sqrt{5}$

n = 9

3) $-\frac{2}{3} - \frac{4}{3} - \frac{8}{3} - \dots$ upto

n = 1

... upto n terms = 823544

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= 7

5) $-3 - 12 - 48 - \dots$ upto

n = 1

... upto n terms = 1677722

= 11

7) $-7 + 21 - 63 + \dots$ upto n terms = -2790067

n = 13

8) $12 + 24 + 48 + \dots$ upto n terms = 6291444

n = 19