

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

## Evaluate: Infinite Geometric Series

T2S5

Determine if the geometric series converges or diverges. If it converges, find its sum.

1)  $1 + 0.5 + 0.25 + 0.125 + \dots$

2)  $\frac{5}{3} + \frac{40}{21} + \frac{320}{147} + \frac{2560}{1029} + \dots$

3)  $4.3 + 2.58 + 1.5616 + \dots$

4)  $-6.12 - 3.672 - \dots$

5)  $5 - 40 + 320 - \dots$

6)  $0.48 + 0.096 + \dots$

7)  $-3 - \sqrt{3} - 1 - \frac{1}{\sqrt{3}} - \frac{1}{3} - \dots$

8)  $\frac{3}{2} + \frac{9}{8} + \frac{27}{32} + \frac{81}{128} + \dots$

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