

Name : _____

Evaluate: Infinite Geometric Series

T2S3

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

1) $-3.2 + 9.28 - 26.912 + 78.0448 - \dots$

2) $\frac{4}{9} + \frac{4}{15} + \frac{4}{25} + \frac{12}{125} + \dots$

3) $12 + 10.8 + 9.72 + \dots$

$225 - 675 - 2025 - \dots$

5) $\sqrt{3} + \frac{\sqrt{3}}{2} + \frac{\sqrt{3}}{4} + \dots$

$5 - 0.75 - 0.375 - \dots$

7) $\frac{5}{6} + \frac{5}{9} + \frac{10}{27} + \frac{20}{81} + \dots$

8) $22 + 4.4 + 0.88 + 0.176 + \dots$

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