

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

## Evaluate: Infinite Geometric Series

T2S1

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

1)  $1 + 0.6 + 0.36 + 0.216 + \dots$

2)  $-5 - 25 - 125 - 625 - 3125 - \dots$

3)  $-2 - 1.6 - 1.28$

# PREVIEW

$$\frac{21}{100} + \frac{147}{1000} + \dots$$

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5)  $\sqrt{5} + 0.2\sqrt{5} + \dots$

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$$+ 0.048 + 0.0192 + \dots$$

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7)  $4 - 9.6 + 23.04 - 55.296 + 132.7104 - \dots$

8)  $\frac{4}{5} + \frac{2}{5} + \frac{1}{5} + \frac{1}{10} + \frac{1}{20} + \dots$