

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

## Evaluate: Infinite Geometric Series

Mixed: S5

Evaluate each infinite geometric series.

1)  $\sum_{n=1}^{\infty} \left( 16 \cdot \left( \frac{5}{6} \right)^{n-1} \right)$

2)  $\frac{7}{2} + \frac{63}{20} + \frac{567}{200} + \frac{5103}{2000} + \dots$

3)  $400 + 80 + 16 + \dots$

5)  $\sum_{b=1}^{\infty} 8.7^{b-1}$

7)  $a = 8; r = \frac{1}{\sqrt{3}}$

8)  $\sum_{s=1}^{\infty} (-9 \cdot 0.7^s)$

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