

Name : _____

Evaluate: Infinite Geometric Series

T3S1

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

1) $\sum_{c=1}^{\infty} \left(\frac{6}{5} \cdot 0.2^{c-1} \right)$

2) $\sum_{b=1}^{\infty} (4 \cdot 1.5^b)$

3) $\sum_{z=1}^{\infty} 0.6^{z-1}$

0.4^{h+1}

5) $\sum_{t=1}^{\infty} (-7 \cdot 0.3^{t-1})$

0.4^m

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7) $\sum_{k=1}^{\infty} 0.8^{k+1}$

8) $\sum_{d=1}^{\infty} (8.2 \cdot 0.2^{d-1})$