

Name : _____

Evaluate: Infinite Geometric Series

T3S3

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

1) $\sum_{k=1}^{\infty} 0.9^{k+1}$

2) $\sum_{n=1}^{\infty} (-6 \cdot 0.5^{n-1})$

3) $\sum_{b=1}^{\infty} \left(-\frac{3}{5}\right)^b$

5) $\sum_{m=1}^{\infty} 0.6^m$

7) $\sum_{x=1}^{\infty} \left(\frac{1}{3} \cdot 10^{x+1}\right)$

8) $\sum_{t=1}^{\infty} (-4.5 \cdot 0.2^t)$

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