Name : _____

# Evaluate: Infinite Geometric Series

T3S5

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

1) $\sum_{y=1}^{\infty} \left(-\frac{7}{9} \cdot 0.6^{y+1}\right)$

2) $\sum_{m=1}^{\infty} (-12 \cdot 0.4^{m})$

3) $\sum_{n=1}^{\infty} (10 \cdot$  $\left(\frac{\sqrt{3}}{4}\right)^{k+1}\Bigg)$

5) $\sum_{p=1}^{\infty} 0.6^{p+}$ b

7) $\sum_{d=1}^{\infty} 0.2^{d-1}$

8) $\sum_{z=1}^{\infty} (13 \cdot 8^{z-1})$