

Evaluate: Infinite Geometric Series

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

1) $\sum_{w=1}^{\infty} 2^{w-1}$

2) $\sum_{q=1}^{\infty} (0.7 \cdot 0.9^q)$

3) $\sum_{k=1}^{\infty} 0.2^{k+}$

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5) $\sum_{u=1}^{\infty} (13.2$

$\cdot 0.5^{f-1})$

$\cdot 0.4^{x+1})$

7) $\sum_{n=1}^{\infty} \left(\frac{\sqrt{2}}{3}\right)^n$

8) $\sum_{m=1}^{\infty} (6.1 \cdot 4^{m+1})$