

Example 6 – *Infinite Series*

Determine whether the infinite geometric series is convergent or divergent. If it is convergent, find its sum.

$$\text{(a)} \quad 2 + \frac{2}{5} + \frac{2}{25} + \frac{2}{125} + \cdots \quad \text{(b)} \quad 1 + \frac{7}{5} + \left(\frac{7}{5}\right)^2 + \left(\frac{7}{5}\right)^3 + \cdots$$

Solution:

(a) This is an infinite geometric series with $a = 2$ and $r = \frac{1}{5}$. Since $|r| = \left|\frac{1}{5}\right| < 1$, the series converges. By the formula for the sum of an infinite geometric series we have

$$S = \frac{2}{1 - \frac{1}{5}} = \frac{5}{2}$$

1study Guide And Intervention Infinite Geometric Series

Clifford Lane



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