

## Evaluate: Infinite Geometric Series

Evaluate each infinite geometric series.

1)  $\sum_{p=1}^{\infty} \left( 6 \cdot \left( \frac{8}{3} \right)^{p-1} \right)$

2)  $a = \frac{7}{3}; r = \frac{2}{5}$

3)  $57.6 + 28.8 + 14.4 + \dots$

$\frac{25}{53} + \frac{125}{378} + \dots$

5)  $\sum_{m=1}^{\infty} \left( \frac{1}{5} \right)^m$

$14.4 - 43.2 + \dots$

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7)  $a = 32; r = 0.6$

8)  $\sum_{y=1}^{\infty} \left( 3 \cdot \left( \frac{1}{\sqrt{7}} \right)^y \right)$