

Name : _____

Evaluate: Infinite Geometric Series

Mixed: S1

Evaluate each infinite geometric series.

1) $a = 5.5 ; r = 0.6$

2) $3 + 9 + 27 + 81 + \dots$

3) $\sum_{k=1}^{\infty} (4 \cdot 0.75^k)$

$25 + 12.5 + \dots$

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5) $a = 12 ; r = 8$

$\frac{64}{625} + \frac{128}{3125} + \dots$

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7) $\sqrt{6} + 0.2\sqrt{6} + 0.04\sqrt{6} + 0.008\sqrt{6} + \dots$

8) $\sum_{c=1}^{\infty} \left(\frac{6}{5} \cdot 0.9^{c+1} \right)$