

Name : _____

Evaluate: Infinite Geometric Series

Mixed: S3

Evaluate each infinite geometric series.

1) $a = -5; r = \sqrt{2} - 1$

2) $51 - 35.7 + 24.99 - 17.493 + \dots$

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

PREVIEW

$\frac{3}{2}$

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5) $a = 340; r = 0.9$

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7) $10.24 + 12.8 + 16 + 20 + \dots$

8) $-\frac{5}{2} - \frac{15}{8} - \frac{45}{32} - \frac{135}{128} - \dots$