

Name : _____

Evaluate: Geometric Series

T2S3

Evaluate each geometric series.

1) $9 - 18 + 36 - \dots - 294912$

2) $-2 - 22 - 242 - \dots - 322102$

3) $-\frac{5}{2} - \frac{15}{7} - \frac{90}{49} - \dots$

$2 + \dots + 6291456$

5) $\frac{7}{4} + \frac{21}{8} + \frac{63}{16} + \dots$

$8 + \dots + 524288$

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7) $-15 + 45 - 135 + \dots + 295245$

8) $2 - 2\sqrt{2} + 4 - \dots - 128\sqrt{2}$