

Name : _____

Evaluate: Infinite Geometric Series

T2S4

Determine if the geometric series converges or diverges. If it converges, find its sum.

1) $7.1 + 5.68 + 4.544 + 3.6352 + \dots$

2) $\frac{7}{2} + \frac{21}{16} + \frac{63}{128} + \frac{189}{1024} + \dots$

3) $8 - 31.2 + 121.$

$.4 - 0.08 - 0.016 - \dots$

5) $-5 - 4.5 - 4.05$

$+ 128 + 64 + 32 + \dots$

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7) $\frac{9}{4} - \frac{9}{14} - \frac{9}{49} - \frac{18}{343} - \dots$

8) $11 + \frac{55}{\sqrt{6}} + \frac{275}{6} + \frac{1375}{6\sqrt{6}} + \dots$