

Name : _____

Evaluate: Infinite Geometric Series

T2S2

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

1) $\frac{1}{7} + \frac{2}{35} + \frac{4}{175} + \frac{8}{875} + \frac{16}{4375} + \dots$

2) $6.3 + 5.04 + 4.032 + 3.2256 + \dots$

3) $\sqrt{2} + 3.5\sqrt{2} + \dots$

$-1.296 - 1.1664 - \dots$

5) $\frac{2}{5} - \frac{3}{25} + \frac{9}{250} - \dots$

$60.75 + 273.375 + \dots$

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7) $32 + 16 + 8 + 4 + 2 + \dots$

8) $-8 - \frac{4}{5} - \frac{2}{25} - \frac{1}{125} - \frac{1}{1250} - \dots$