

Name : \_\_\_\_\_

## Convergence & Divergence

Sheet 5

Determine whether each geometric series converges or diverges.

1)  $-7 - 49 - 343 - 2401 - \dots$

2)  $1 + \sqrt{2} + 2 + 2\sqrt{2} + \dots$

3)  $\frac{2}{5} + \frac{2}{35} + \frac{2}{245} + \dots$

$71 - 513 + \dots$

5)  $8.3 + 0.83 + 0.083 + \dots$

$43 + 2187 - \dots$

7)  $-\frac{8}{7} - \frac{1}{7} - \frac{1}{56} - \frac{1}{448} - \dots$

8)  $20 + 16 + 12.8 + 10.24 + \dots$

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