

Name : _____

Convergence & Divergence

Sheet 3

Determine whether each geometric series converges or diverges.

1) $\frac{5}{7} + \frac{15}{28} + \frac{45}{112} + \frac{135}{448} + \dots$

2) $10 + 110 + 1210 + 13310 + \dots$

3) $1.1 + 0.66 + 0.396 + \dots$

4) $42 - 42\sqrt{7} - \dots$

5) $18 + 90 + 450 + \dots$

6) $\frac{72}{25} - \frac{288}{125} - \dots$

7) $-2.1 + 2.52 - 3.024 + 3.6288 - \dots$

8) $5 + 1 + \frac{1}{5} + \frac{1}{25} + \dots$

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