

Name : _____

Recursive Formula

Sheet 3

Write the recursive formula for each geometric sequence.

1) 2, 30, 450, 6750, ...

2) 8.4, -25.2, 75.6, -226.8, 680.4, ...

3) $\frac{5}{9}, \frac{25}{18}, \frac{125}{36}, \frac{625}{72}, \dots$

4) -1125, ...

5) 0.8, 3.2, 12.8, 51.2, ...

6) 38, 196608, ...

7) 14, -112, 896, -7168, ...

8) 4, 19008, ...

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9) $-6\sqrt{7}, -12\sqrt{7}, -24\sqrt{7}, -48\sqrt{7}, -96\sqrt{7}, \dots$

10) $\frac{1}{4}, -\frac{1}{6}, \frac{1}{9}, -\frac{2}{27}, \frac{4}{81}, \dots$