

11.3
Part 2

NAME _____

DATE _____

Practice Worksheet

Geometric Series

Find the sum of each geometric series described.

1. $160 + 80 + 40 + \dots, n = 6$

2. $a_1 = 5, r = -\frac{1}{2}, n = 7$

Use sigma notation to express each series.

5. $54 + 18 + 6 + 2 + \frac{2}{3} + \frac{2}{9}$

6. $16 - 24 + 36 - 54 + 81 - 121.5 + 182.25$

Find a_1 for each geometric series described.

7. $S_n = -55, r = -\frac{2}{3}, n = 5$

8. $S_n = 2457, a_n = 3072, r = -4$