Alg 2B Hwk #34 Sec 11-5: Geometric Series Fall 2017 Name:

1. Find the sum of the first 13 terms of this geometric series: $-11, 44, -176, 704, \ldots$

2. Find the sum of this infinite geometric series: $262144 + 65536 + 16384 + 4096, \ldots$.

3. Find the sum of the terms in this finite geometric series: $6 + 18 + 54 + 162 + \ldots + 1062882$

Find the sum of each series, if it exists.

4. $252 + 249 + 246 + 243, \ldots$

5. $12500 + 1250 + 125 + 12.5, \ldots$

6. $0.225 + 0.45 + 0.9 + 1.8, \ldots$

7. $19 + 23.5 + 28 + 32.5 + \ldots + 100$

8. $12288 + -6144 + 3072 + -1536, \ldots$