**LT #4: Arithmetic Series (3 pts each)**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

/12

1. Find the sum of the following *arithmetic* sequence…
2. Find the sum of the first 15 terms of the following *arithmetic* sequence…
3. Evaluate the following:
4. What is the summation notation for the series ?

*(Hint: determine number of terms and explicit formula)*

**LT #5: Geometric Series**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
   b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Given: Find   
   (round to the nearest whole number) (3 pts)
3. Evaluate: (3 pts)
4. State whether the following infinite geometric series   
   *converge or diverge*. (1 pt each)
5. Evaluate the following infinite geometric series (3 pts)