**Additional Review for Sequences/Series**

1. Find the common ratio of the following series: 99 + 33 + 11 +...
2. Find Sn for the geometric sequence: a1 = 2, *r* = 3, *n* = 6
3. Find an for the sequence: a1= 400, *d* = -20, *n* = 25
4. Find the common difference of the sequence: a5 = 32, a10= 102
5. Determine S10 for the series: 10 + 6 + 2 + ...
6. Determine the infinite sum of the series: 6 - 3 + 1.5 - ...
7. Evaluate each:

$$\sum\_{k=1}^{3}3(2)^{k-1}$$

$$\sum\_{k=1}^{\infty }2\left(\frac{2}{5}\right)^{k-1}$$

**Answers:**

1. 1/3
2. 728
3. -80
4. 14
5. -80
6. 4
7. A) 21

B) 10/3