

Algebra II, Quiz 14.1-15.2

For **1-5** evaluate the sums:

1)  $\sum_{i=1}^{10} 1$

2)  $\sum_{i=1}^{10} i$

3)  $\sum_{i=1}^{10} 2i$

4)  $\sum_{i=1}^{10} (2i+1)$

5)  $\sum_{j=1}^3 \left( \sum_{i=1}^3 (i \cdot j) \right)$

For **6-10** give the sequence or series value for the arithmetic sequence with  $a_1=2$  and  $d=3$

6)  $a_2$

7)  $a_{10}$

8)  $a_n$

9)  $S_{10}$

10)  $S_n$