

Math 1010      April 24, 2017      Homework 32  
Find the first four terms and the 20th terms of the sequence.

1.  $a_n = \frac{3n + 1}{n + 2}$

Find the first 6 terms of each sequence.

2.  $a_n = 3a_{n-1} + 1$        $a_1 = 1$

3.  $a_n = a_{n-1} + 4a_{n-2}$        $a_1 = 2$        $a_2 = 3$

Find each sum.

4.  $\sum_{k=1}^5 (2k + 3)$

5.  $\sum_{k=0}^4 k^2 + 2$

Express each expression in summation notation.

6.  $3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 + 11$

7.  $2 + 4 + 8 + 16 + 32 + 64 + 128 + 256 + 512 + 1024$