

**QUIZ#09 MATH 022 SECTION 12**

Name:

1. Is the sequence 2, 6, 12, 18... an arithmetic sequence? Yes or No?

2. Evaluate

$$\sum_{n=0}^4 n!$$

3. What's the 4th item of an infinite sequence in which  $a_1 = 3$  and  $a_n = 2a_{n-1} - 4$  for  $n \geq 2$ .

4. Write the series  $4 + 6 + 8 + 10 + 12$  in summation notation, use the index  $i$  and let  $i$  begin at 1.