

# MTH 3318 - Homework #0

FALL 2022

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Name \_\_\_\_\_

**Instructions:** Express each sum of the form  $\sum_{i=1}^{n+1} a_i$  in the form  $(\sum_{i=1}^n a_i) + a_{n+1}$

1.  $\sum_{i=1}^{n+1} i$

2.  $\sum_{i=1}^{n+1} 2i$

3.  $\sum_{i=1}^{n+1} (2i - 1)$

4.  $\sum_{i=1}^{n+1} i^2$

5.  $\sum_{i=1}^{n+1} i^3$

6.  $\sum_{i=1}^{n+1} ar^{i-1}$