

**WRITE YOUR NAME:**

MAC 2312 Homework 2

Due in class, Friday January 27th

You can use more paper if necessary, but please STAPLE

**Question 1.** Evaluate the sum.

$$\sum_{j=2}^6 (3j - 1)$$

**Question 2.** Evaluate the sum.

$$\sum_{n=1}^6 \sin(n\pi)$$

**Question 3.** Express the sum in sigma notation.

$$a_1 - a_2 + a_3 - a_4 + a_5$$

**Question 4.** Evaluate the sum.

$$\sum_{k=1}^{20} k^2$$

**Question 5.** Evaluate the sum.

$$\sum_{k=4}^{20} k^2$$