

Math 108H (Quiz 5)

Name \_\_\_\_\_.

Show all work (no calculator)

1. (10 points) You are making an open rectangular box from an 8 in. by 15 in. piece of cardboard by cutting squares from the corners and folding up the sides. What are the dimensions of the box with the largest volume?

2. (4+6=10 points)

(a) Find  $\sum_{k=3}^5 (2k^2 - 9)$

(b) Find  $\sum_{k=1}^n (2k^2 - 5k + 7)$