

Math 151, Quiz # 10, November 19, 2013

1. Evaluate the following sums. Show your work.

a) $\sum_{j=0}^5 j^2$

b) $\sum_{k=0}^{20} (-1)^k$

c) Let $f(x) = \sum_{k=0}^8 x^k$. Write $f'(x)$ in sum notation.

2. Using a geometrical argument, compute $\int_0^8 (x - 2) dx$.