



Math 181 Quiz 2 Version A

3. Simplify the the following sums.

(i)  $\sum_{k=3}^n k = 3 + 4 + 5 + \cdots + n.$

(ii)  $\sum_{k=5}^{25} x^k = x^5 + x^6 + x^7 + \cdots + x^{25}$  under the assumption  $x \neq 1.$

4. Use the  $\epsilon$ - $\delta$  definition of contintity to show that  $f(x) = 3x$  is continuous at  $x_0 = 5.$