Quiz 1

Name _____

Math 175, 12PM

Please justify all your answers   January 16, 2020

Please also write your full name on the back

1. True or false?

   (a) The binomial coefficient $\binom{n}{k}$ counts the number of ways to choose k ordered items from a set of n items.

   (b) A set of size n has 2^n subsets.

2. How many odd numbers from 1001 to 9999 have four distinct digits?

3. What is the coefficient of the term containing $x^3 y^6$ in the expansion of $(2x - 3y)^9$?