MATH 10B with Prof. Stankova
DIS 106; TTh 9:30∼11:00
GSI: Seewoo Lee

Quiz 2

Student:
SID:
Tue 2/5/19

True/False - No explanation needed. (2pts)

1. $0! = 0$. True/False
2. The binomial coefficients first increase from left to right along a row in Pascal's triangle, but then they decrease from the middle to the end of the row. True/False

Problems - Need justification. No justification means **zero**!

1. How many numbers must be selected from the set $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ to guarantee that at least one **pair** of these numbers add up to **7**? (5pts)

2. How many ways are there for 5 women and 5 men to stand in a line so that no two men stand next to each other **and** no two women stand next to each other? (5 points)