MATH 10B with Prof. Stankova

DIS 106; TTh 9:30~11:00 GSI: Seewoo Lee

Quiz 1

Student: SID:

Tue 1/29/19

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

1. Some counting problem about DNA sequences may not involve powers of 4, although there are 4 bases of nucleotides. True/False

2. . The formula $|B \setminus A| = |B| - |B \cap A|$ is false when the set B is contained in the set A. True/False

Problems - Need justification. No justification means zero!

1. How many functions are there from the set $\{1, 2, 3, 4, 5\}$ to the set $\{1, 2, 3\}$? (5pts)

2. How many 4-digits numbers that contain at least one 1? (5 points)