MATH 10B with Prof. Stankova Section #209; time: 3:30-5pm

GSI: Ninh DO

Quiz 10

Student: SID:

Tue 4/9/19

True/False - No explanation needed. (1pt for correct, 0pt - no answer, -1pt - incorrect)

1. If the standard deviation exists, the mean exists. True/False

2. If a RV X is translated by 2, i.e. X+2, its standard deviation is also translated by 2. True/False

Problems - Need justification. No justification means zero!

1. (10pts) Given a RV X having the PDF f(x) = cx(1-x) for $0 \le x \le 2$ and f(x) = 0 otherwise. Find the variance of X (in term of c).