MATH 10B
Section 205
Student:
SID:
GSI: Theo McKenzie
Quiz 6
Tue 3/5/19

True/False - No explanation needed. (For each: 1 point if correct, 0 points if not answered, -1 points if incorrect)

1. If $X$ is the random variable of the product of two dice rolls, then $\left|X^{-1}(4)\right|=3$. True/False
2. If $A$ and $B$ are disjoint, then they are independent. True/False

Problems - Needs justification.

1. How many people $n$ are necessary to have at least a $1 / 2$ chance that at least three people are born on a Tuesday? Assume a birthday occurs on a given day of the week with probability $1 / 7$. We don't need an actual number, just an equation with $n$ as a variable. (10 points)
