

MA 110-02
§3.1 – 3.4

Quiz #3

score

Name: _____

6 July 2001

1. Two dice are rolled. Let E be the event “at least one die is a 4” and let F denote the event “the sum of the dice is 9.”

(a) Are the events E and F mutually exclusive? Explain. (2 points)

(b) Find $P(E)$ and $P(F)$. (6 points)

2. If E and F are two events in a sample space with $P(E) = 0.36$, $P(E \cup F) = 0.68$, and $P(E \cap F) = 0.21$, find the value of $P(F)$. Show your work. (5 points)

3. If three dice are rolled, find the probability that at least two of the dice match. Explain your work. (7 points)