Math 115 - Quiz 8

Name key Score

October 30, 2014

Show all work to receive full credit. Supply explanations when necessary.

1. (2 points) A card is drawn at random from a standard deck of playing cards. Let A be the event of drawing a face card, and let B be the event of drawing a queen. Compute P(A|B) and P(B|A). Be sure to indicate which is which.

$$P(B|A) = PROBOF QUEW GIVEN FACE CARD = $\frac{1}{12} = \frac{1}{3} = 33\frac{1}{3}\%$$$

2. (3 points) A letter is selected at random from the first box and placed into the second box. Then a letter is selected at random from the second box.

Sketch the complete tree diagram for this experiment. Include the probabilities of each path.

