Math 112 - Quiz 9 May 1, 2019

Name key Score

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

1. (2 points) If the probability of the event A is 37%, then what is the probability of A'?

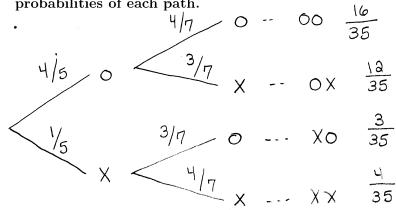
$$P(A') = 1 - .P(A) = 1 - 0.37 = 0.63$$

2. (8 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.

0 0 0 0 X	
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(a) Sketch the complete tree diagram for this experiment. Include the probabilities of each path.



(b) What is the probability of selecting at least one X?

$$\frac{19}{35} + \frac{3}{35} + \frac{4}{35} = \frac{19}{35}$$

(c) What is the probability of selecting O from the first box or O from the second box?

$$\frac{16}{35} + \frac{12}{35} + \frac{3}{35} = \frac{31}{35}$$