KFUPM	Term 112		Date: 11/3/2012
Mathematics & Statistics	STAT 319		Duration: 30 minutes
	Quiz# 2		
Name:	ID #:	Section 1	Serial #:
Q1: A system contains two comp			
A or B functions. The probability		5, the probabil	ity that B functions is
0.4 and the probability that both		_	
a. What is the probability th	at the system functions:	?	
b. What is the probability th	at ONLY one compone	nt functions?	
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c. What is the probability th	at NONE of the compor	nems functions	<i>:</i>

Q2: A chemical engineer is studying the production of two lines of chemical-reaction catalysts. Line I produces ONLY type A catalyst, whereas only 42% of the production of Line II is from type A catalyst and the rest is from type B catalyst. The engineer also found that line II produces 65% of the overall production. a. What is the probability that a randomly selected catalyst is of type A?
a. What is the probability that a randomly selected catalyst is of type A:
b. If a randomly selected catalyst was of type A, what is the probability that it was produced
by line I?
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