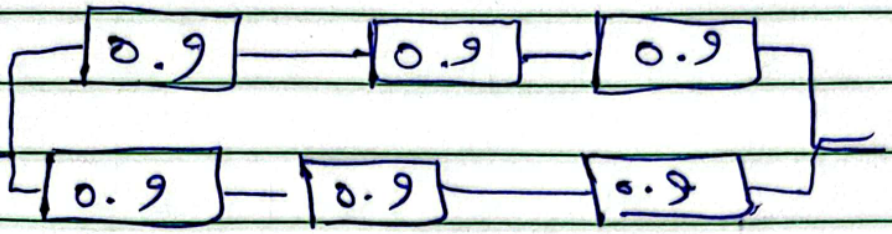
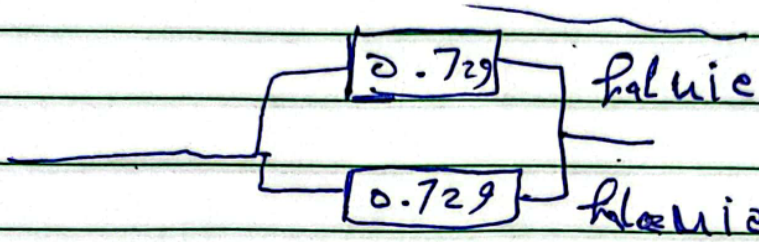
Subject: Date:

Line 1 sucsses = 0.9 X 0.9 X 0.9 = 0.729



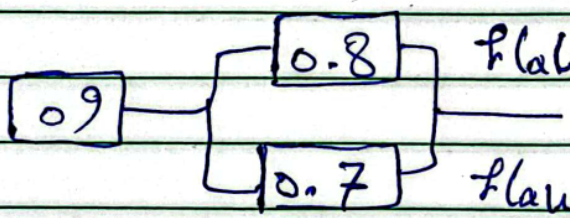
line 2 sucsses = 0.9 X 0.9 X 0.9 = 0.729



flaiier of line = 1 - 0.729 = 0.271

flaiier of line 2 = 1 - 0.729 = 0.271

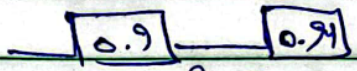
sucsses of the system = 1 - (0.271 X 0.271) = 0.9265



flaiier of line 1 = 1 - 0.8 = 0.2

flaiier of line 2 = 1 - 0.7 = 0.3

success of parallel system = 1 - (0.2 X 0.3) = 0.94



success of series system = 0.9 X 0.94 = 0.846

A1	0.4	0.02	0.008
A2	0.35	0.03	0.0105
A3	0.25	0.04	0.001
			0.0195

the probability that the item is produced by A1 = 0.4

IF the item is produced by A2 what is probability that it is defective = 0.02

The probability the item is produced by A3 and defective = 0.001

if the item was produced by A1 = 0.008 / 0.0195