C. Beaver

15/15

73)

x	P(x)	xP(x)
0	.3	0
1	.2	.2
2	.1	.2
3	.4	1.2

a) .1

b) 1.6

75)

a)

Software

x	P(x)
5,000,000	.10
1,000,000	.30
-1,000,000	.60

Hardware

x	P(x)
3,000,000	.20
1,000,000	.4
-1,000,000	.4

Biotech

x	P(x)
6,000,000	.10
0	.70
-1,000,000	.20

b) Software: 200k Hardware: 600k Biotech: 400k

c) Biotech because it only has a 20% chance of loss

d) the software company b/c it has a 60% chance of loss

e) The hardware company has a total of 60% return which is the highest

76)

x	P(x)	xP(x)
0	.10	0
1	.20	.20
2	.30	.6
3	.20	.6
4	.10	.4
5	.05	.25
6	.05	.3

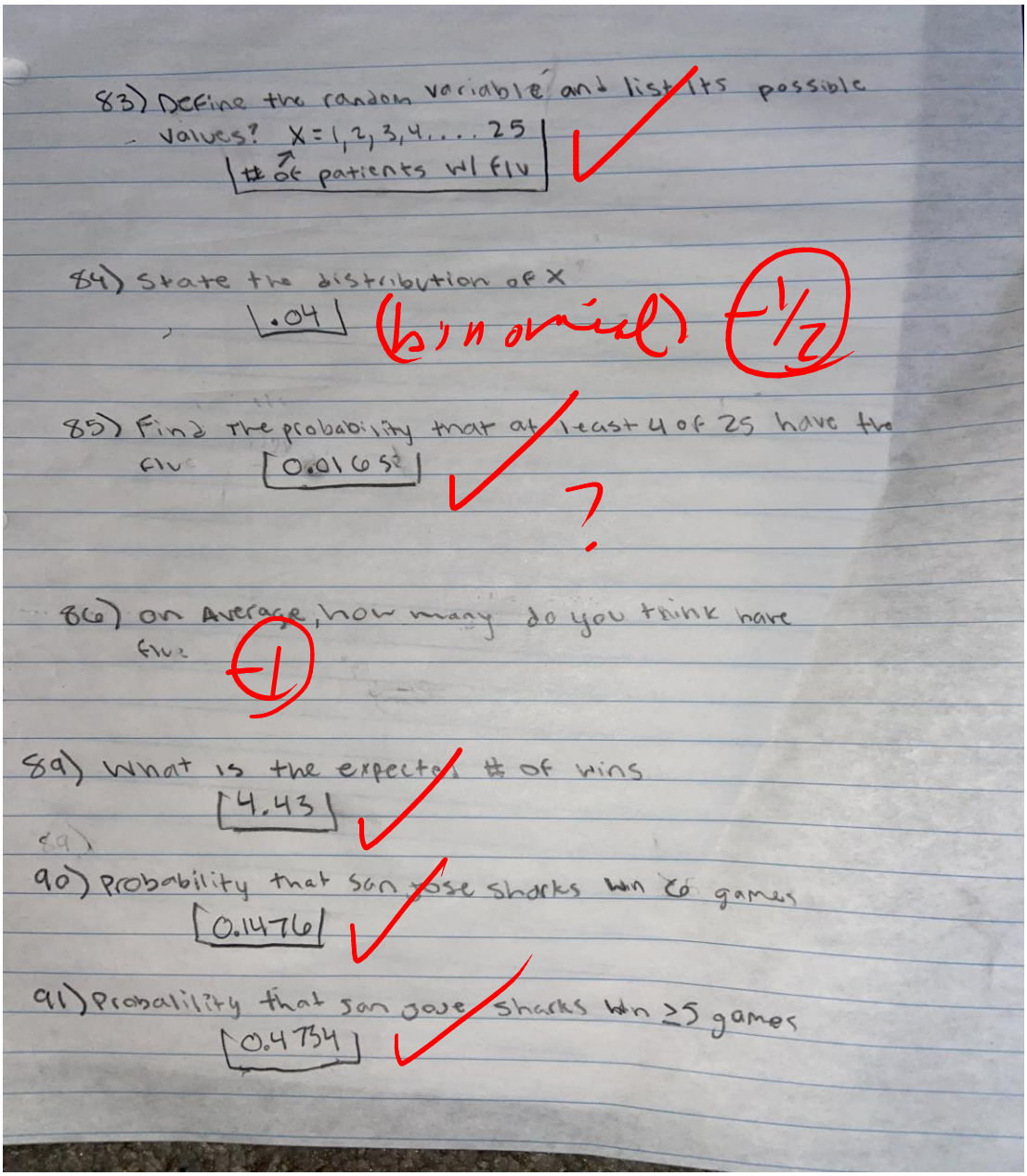
a) .20

b) → -1/2

c) 2.35

d) 2-3 children because the probability is 50% compared to 4-6 at 20%

77) 4.85 years to complete degree



83) Define the random variable and list its possible values? $X = 1, 2, 3, 4, \ldots 25$
(# of patients w/ flu)

84) State the distribution of X
.04 binomial $\frac{1}{2}$

85) Find the probability that at least 4 of 25 have the flu
0.0165 ?

86) On Average, how many do you think have flu?
1

89) What is the expected # of wins
4.43

90) Probability that San Jose Sharks win 26 games
0.1476

91) Probability that San Jose Sharks win ≥ 5 games
0.4734