Q.1 (a) If we defined the following function:

*def doit(inum):*

*if (inum == 0) : return 1*

*return doit(inum – 1) \* inum*

the call to *doit(4)* would return: \_24\_\_\_\_\_\_\_\_

Q.1 (b) That question was (pick one):

Pretty easy

Q.2. NP stands for (pick only one):

Nondeterministic Polynomial

Q.3. The result of flipping a fair coin follows a

I couldn’t remember so I looked it up

Bernoulli distribution

But I don’t Think I ever learned that

Q.4. The derivative (x3)’ =

I don’t know.

Q.5. The transpose of:

\left[ \begin{array}{cc}
1 & 2 \\
3 & 4 \\
5 & 6
\end{array} \right]

is

[

[1,3,5]

[2,4,6]

]

Q.6. (a) The function:

sum(i\*(i+1) for i in range(1,4))

= \_\_\_\_\_\_\_

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Q.6 (b) How will you change the function doit() you have seen before to compute this new function? Fill in the two blanks.

def doit(inum):

if (inum == 0) : return \_\_\_?\_\_\_\_

return doit(inum – 1) \_\_\_\_\_?\_\_\_\_\_\_\_\_\_

Q.7. Let P(X) = 0.1, P(Y) = 0.2, P(X|Y) = 0.4. What is P(Y|X)?

pY|X = (pX|Y \*pX)/pY

pX|Y =0.2