

Name: \_\_\_\_\_

1. Exercise 8.17 from the text.

2. Exercise 10.1 from the text.

(a)  $P(X=k | Y=y)$ :

k	Y		
	0	1	2
0			
1			
2			

(b)  $E[X | Y = 0]$ :

$E[X | Y = 1]$ :

$E[X | Y = 2]$ :

3. Exercise 10.2 from the text.

X	Y			
		0	1	2
0				
1		1/8		1/8

4. Exercise 10.3 from the text

$P(X=k)$ :

$E[X]$ :

5. Exercise 10.4 from the text

(a)  $P(X=k \mid N=n)$ :

(b)  $E[X \mid N=n]$ :

(c)  $E[X]$ :

