Stat 235

Lab 3

WOOSAREE, Arun

Lab EL12

TA: Jessa Marley

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1

As λ increases, the distribution shifts to the right, since λ is the mean value of the distribution. We also see that as this distibution shifts to the right, the curve flattens as a result of the mean probability decreasing while the spread increases. Since Poisson distributions measure the number of successes in an interval, and in this case a "success" is a flaw in a plastic panel, we can clearly see that as λ increases, the number of flaws in the plastic panels also increase.

2

2.a

2.b

2.c
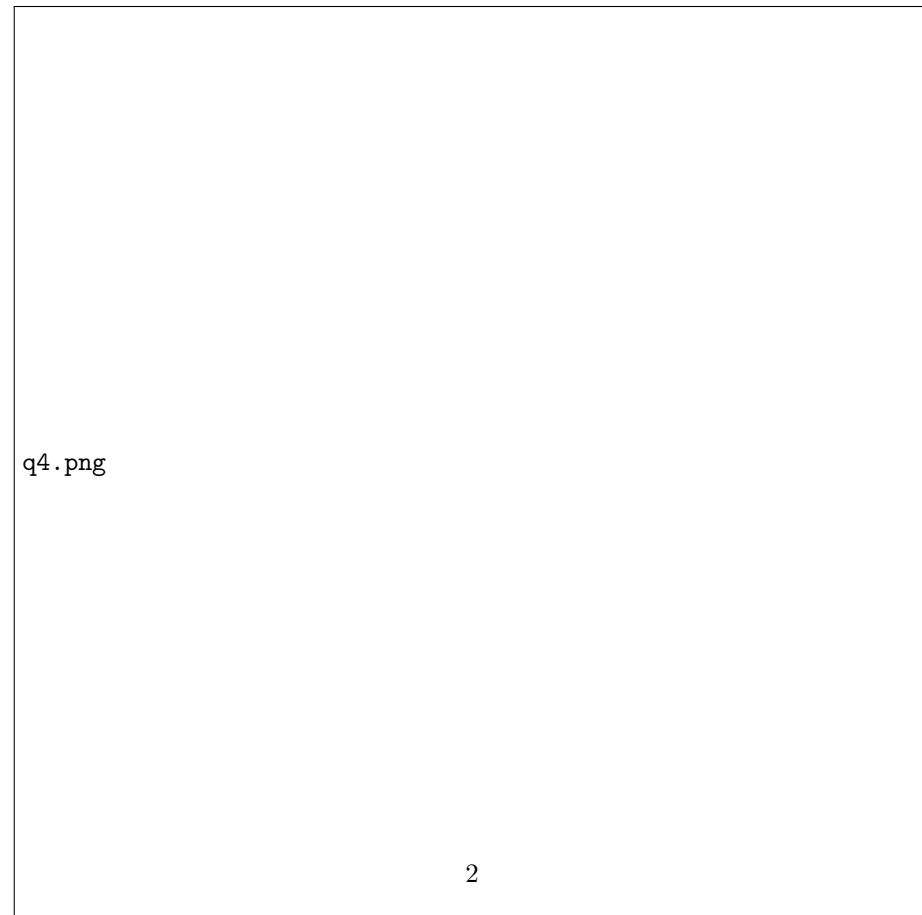
3

3.a

3.b

4

4.a

4.b

4.c

```
q4.png
```

2

Figure 1: INSERT CAPTION HERE

4.d

5

5.a

```
q5.png
```

Figure 2: INSERT CAPTION HERE

5.b