Sarah Ford

Assignment 4

**Part I.**

1)

2)

3)

*K = # of total words beginning with the letter t*

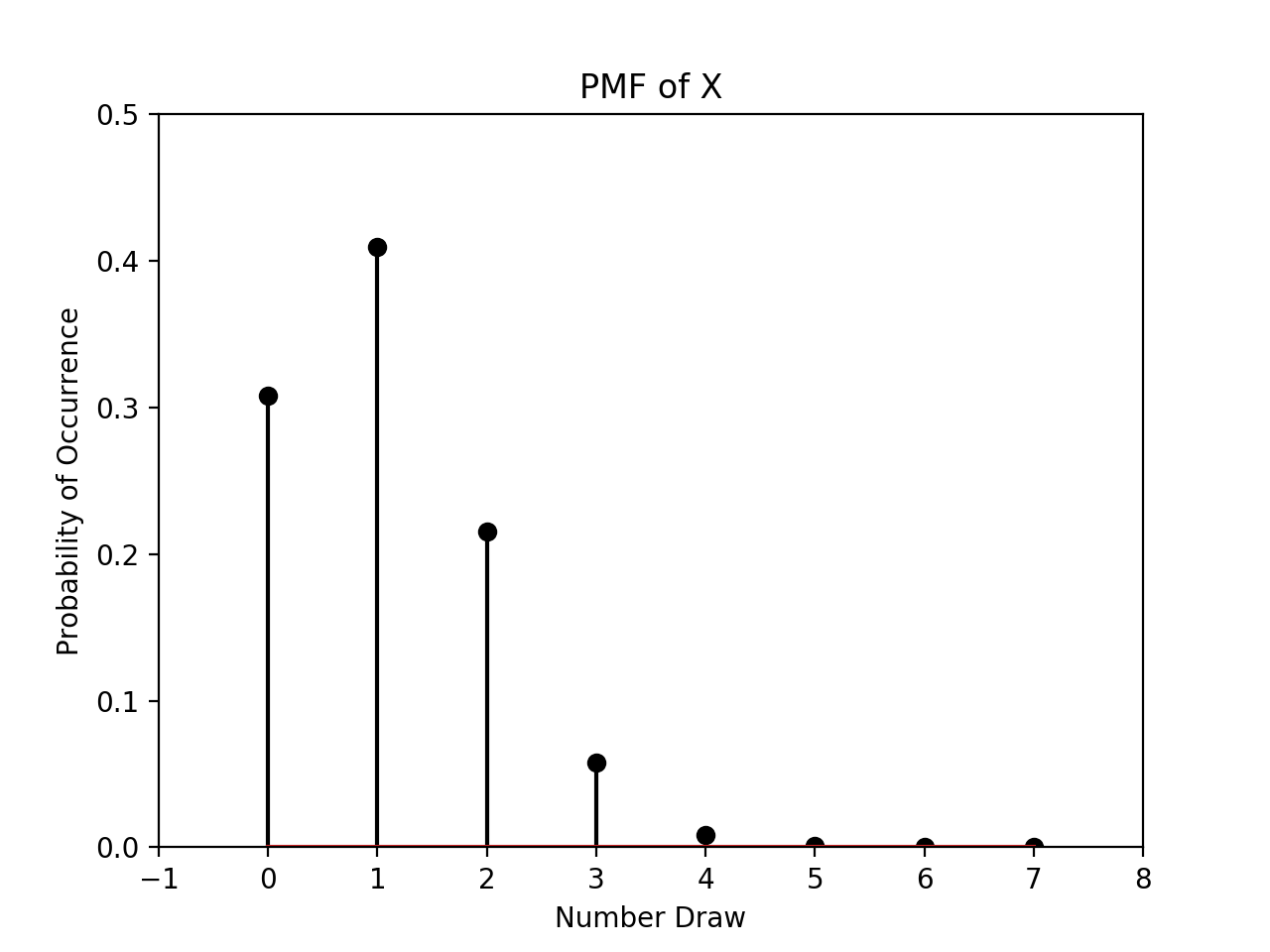
*k = # of observed words beginning with the letter t*

*N = # of words*

*n = # of draws*

4)

5) See attached code, function “PMF\_stem\_X()”.



6)

7) See attached code, function “distribution\_X()”.

8) See attached code, function “ave\_min\_expected()”.

**Part II.**

1)

2)

3)

Exactly:

Approximation:

Exactly:

Approximation:

4) See attached code, function “Part2\_Y()”

5) See attached code, function “PMF\_stem\_Y()”

