CH 4.2 Patrick Wong

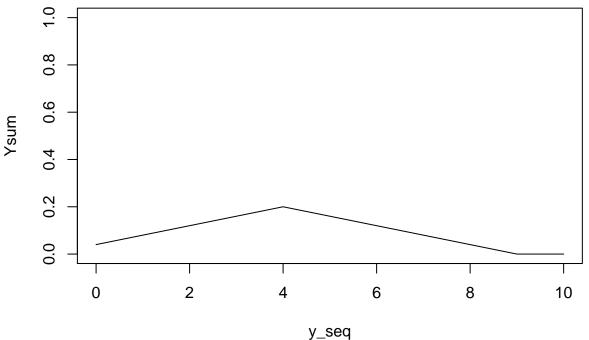
10/24/2018

MATH 324 Ch 4.2

Sketch CDFs, PDFs with Different Parameters

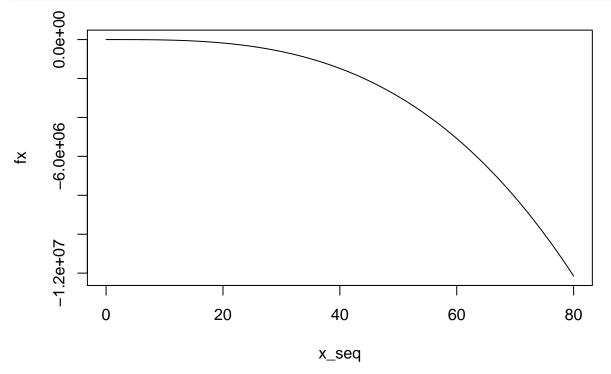
8A)

```
y_seq <- seq(0, 10, by = 1)
ylength <- length(y_seq)
yz <- 1:ylength
Ysum <- y_seq
for (y in yz){
    for(j in 1:y){
        if ((y >= 0) && (y < 5)){
            Ysum[y] = (1/25)*y
        }
        else if((y >= 5) && (y < 10)){
            Ysum[y] = (2/5)-((1/25)*(y))
        }
        else{
            Ysum[y] = 0
        }
        }
        plot(y_seq,Ysum, type = "l", xlim=c(0,10), ylim=c(0,1))</pre>
```



```
8B)
```

```
tau = 2pi theta = 4
x_seq <- seq(0, 80, by = 1)
fx = ((4/2*3.14)*(1-(x_seq/2*3.14))^(4-1))
plot(x_seq, fx, type = 'l')</pre>
```

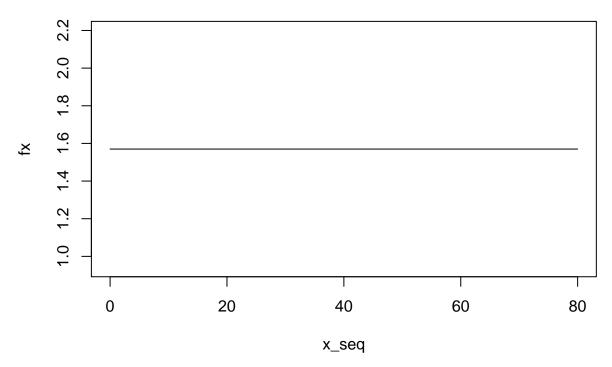


```
tau = 2pi theta = 1

x_seq <- seq(0, 80, by = 1)

fx = ((1/2*3.14)*(1-(x_seq/2*3.14))^(1-1))

plot(x_seq, fx, type = 'l')
```



tau = 2pi theta = 0.5

```
x_{seq} \leftarrow seq(0, 80, by = 1)

fx = ((0.5/2*3.14)*(1-(x_{seq}/2*3.14))^(0.5-1))

plot(x_{seq}, fx, type = 'l')
```

