## ASSIGNMENT - 5

**Probability and Statistics** 

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COE11

## Outputs:

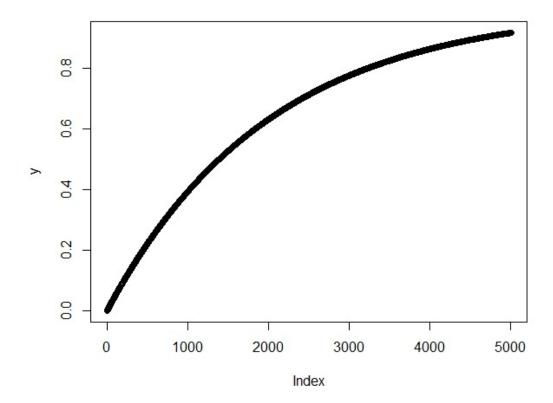
Q1

```
> punif(45,min=0,max=60, lower.tail=FALSE)
[1] 0.25
> punif(30,min=0,max=60, lower.tail=TRUE)-punif(20,min=0,max=60,lower.tail=TRUE)
[1] 0.1666667
> |
```

Q2 (a)

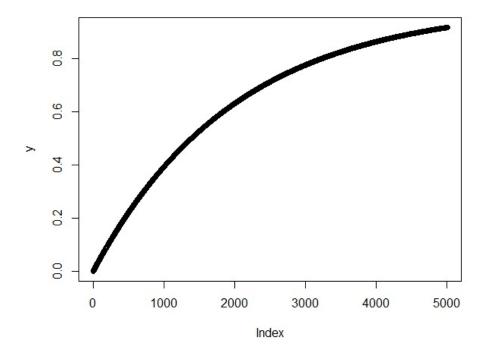
```
> dexp(3,1/2)
[1] 0.1115651
```

Q2 (b)

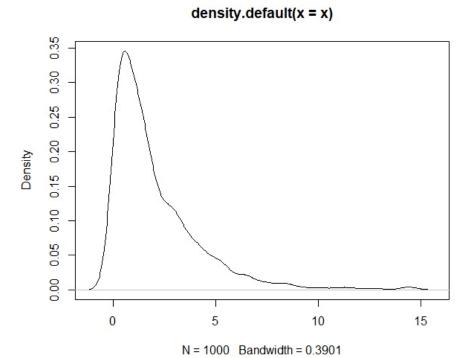


Q2 (c)

```
> pexp(3,rate=1/2)
[1] 0.7768698
> |
```



Q2 (e)



```
Console Terminal ×

>/ 
> dgamma(3,2,1/3)

[1] 0.1226265
> pgamma(1,2,1/3, lower.tail=FALSE)

[1] 0.9553751
> qgamma(0.7,2,1/3, lower.tail=TRUE)

[1] 7.317649
> |
```