

ASSIGNMENT 5

NAME-YASHASHVI GARG

GROUP-3CO5

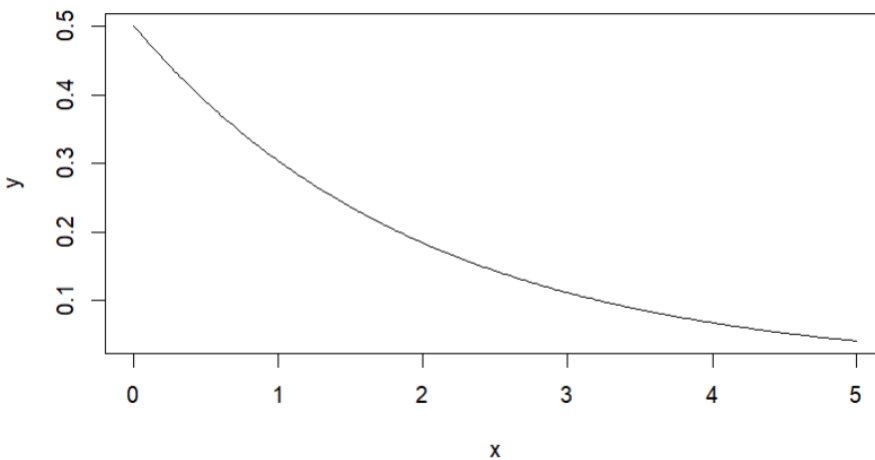
ROLL NO.-102203152

QUES1

```
> prob<-1-punif(45,min=0,max=60)
> prob
[1] 0.25
>
> q<- punif(30,min=0,max=60)-punif(20,min=0,max=60)
> q
[1] 0.1666667
```

QUES2

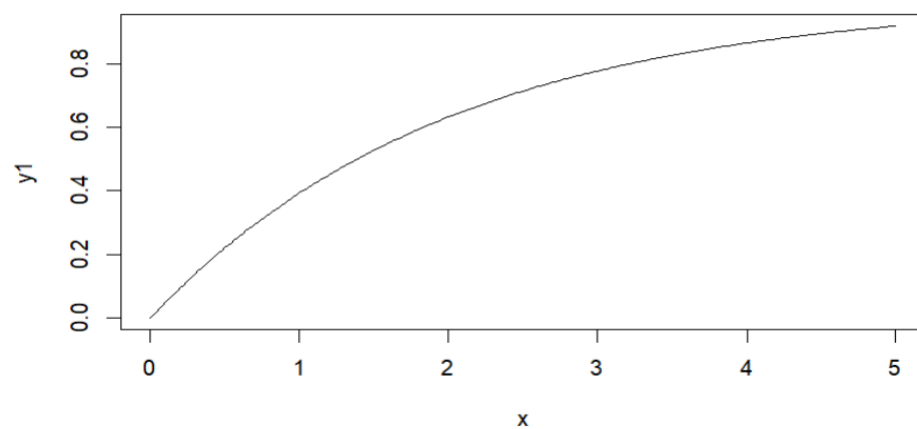
```
> ##q2
> #a)
> dexp(3,1/2)
[1] 0.1115651
>
> #b)
> x=seq(0,5,by=0.02)
> y=dexp(x,1/2)
> plot(x,y,type = "l")
>
```



```

> #c)
> pexp(3,1/2)
[1] 0.7768698
>
> #d)
> y1<-pexp(x,1/2)
> plot(x,y1,type= "l")
> |

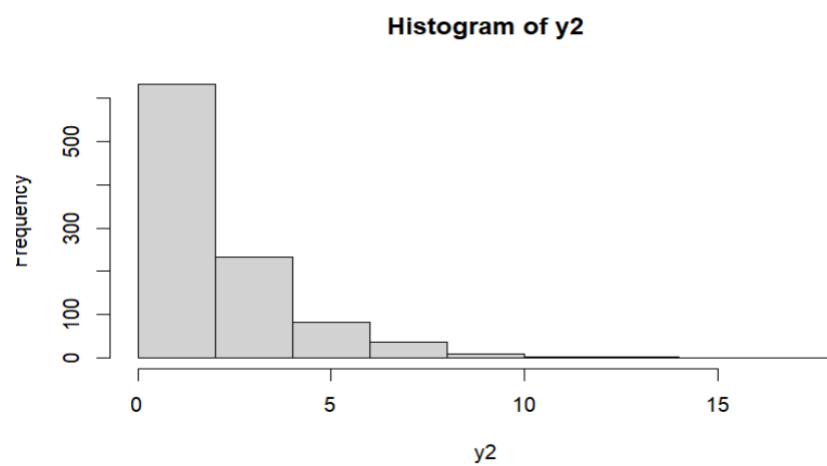
```



```

> #e)
> y2<-rexp(1000,1/2)
> hist(y2)
> |

```



QUES3

```
> #q3  
> dgamma(3,2,3)  
[1] 0.003332065  
>  
> pgamma(1,2,3,lower.tail=FALSE)  
[1] 0.1991483  
>  
> qgamma(0.7,2,3)  
[1] 0.8130722  
> |
```