IT24100850 – Samanthilaka W.K.D

Lab 7

```
1  setwd("C:\Users\ASUS\Desktop\IT24100850_lab7")
2

3  #1
4  punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
```

```
> punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
[1] 0.375
```

```
6  #2
7  pexp(2, rate=1/3, lower.tail=TRUE)
```

```
> pexp(2, rate=1/3, lower.tail=TRUE)
[1] 0.4865829
```

```
9  #3
10 # (i)
11 pnorm(130, mean=100, sd=15, lower.tail=FALSE)
12
13 #(ii)
14 qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)
```

```
> # (i)
> pnorm(130, mean=100, sd=15, lower.tail=FALSE)
[1] 0.02275013
> qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)
[1] 124.6728
```