IT24103927

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Probability and Statistics - IT2120

Lab Sheet 7

Exercise

1.

(ii)

```
{\tt setwd("C:\Wsers\HSAND\OneDrive\Desktop\IT24103927\ [Lab7\ PS]")}
punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
> setwd("C:\\Users\\HSAND\\OneDrive\\Desktop\\IT24103927 [Lab7 PS]")
> punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
[1] 0.375
2.
pexp(2, rate=1/3, lower.tail=TRUE)
> #2
> pexp(2, rate=1/3, lower.tail=TRUE)
[1] 0.4865829
3.
(i)
 #3
 # (i)
 pnorm(130, mean=100, sd=15, lower.tail=FALSE)
> #3
> # (i)
> pnorm(130, mean=100, sd=15, lower.tail=FALSE)
[1] 0.02275013
```

```
#(ii)
qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)
> #(ii)
> qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)
[1] 124.6728
```