Exercise

1

```
<functions>
    • Untitled
       setwd("/Users/dumeesha/Desktop/IT24100338")
       punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)

    R Console
~/Desktop/IT24100338
                                                                                              Qv Help Search
R version 4.5.1 (2025-06-13) -- "Great Square Root" Copyright (C) 2025 The R Foundation for Statistical Computing
 Platform: aarch64-apple-darwin20
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   Natural language support but running in an English locale
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Type 'demo()' for some demos, 'help()' for on-line help, or 'help.start()' for an HTML browser interface to help.
 Type 'q()' to quit R.
 [R.app GUI 1.82 (8536) aarch64-apple-darwin20]
 [Workspace restored from /Users/dumeesha/.RData]
 [History restored from /Users/dumeesha/.Rapp.history]
 > setwd("/Users/dumeesha/Desktop/IT24100338")
  punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
[1] 0.375
2
                                                <functions>
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      punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
      pexp(2, rate = 1/3)

    R Console
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R version 4.5.1 (2025-06-13) -- "Great Square Root" |
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> setwd("/Users/dumeesha/Desktop/IT24100338")
> punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
 Γ17 Ø.375
 > prob2 <- pexp(2, rate = 1/3)
    pexp(2, rate = 1/3)
 [1] 0.4865829
```

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● ● ● Untitled

```
setwd("/Users/dumeesha/Desktop/IT24100338")
      punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
      pexp(2, rate = 1/3)
      pnorm(130, mean = 100, sd = 15)

    R Console
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> setwd("/Users/dumesha/Desktop/TTZ4100338")
> punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
[1] 0.375
> prob2 <- pexp(2, rate = 1/3)
> pexp(2, rate = 1/3)
[1] 0.4865829
> pnorm(130, mean = 100, sd = 15)
[1] 0.9772499
    II.
                                                            <functions>
    • O Untitled
       setwd("/Users/dumeesha/Desktop/IT24100338")
       punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
       pexp(2, rate = 1/3)
       pnorm(130, mean = 100, sd = 15)
 qnorm(0.95, mean = 100, sd = 15)

    R Console
                                                                               Qv Help Search
~/Desktop/IT24100338
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> setwd("/Users/dumeesha/Desktop/IT24100338")
> punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
[1] 0.375
> prob2 <- pexp(2, rate = 1/3)
> pexp(2, rate = 1/3)
[1] 0.4865829
> pnorm(130, mean = 100, sd = 15)
[1] 0.9772499
> qnorm(0.95, mean = 100, sd = 15)
[1] 124.6728
```