# Mini Project #1

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**1.**

**(a)**

P(T>15)=1-P(T<=15)=1-

**(b)**

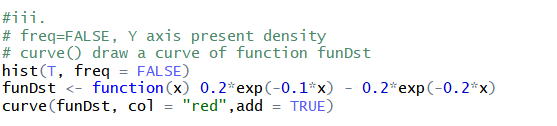
**i.**

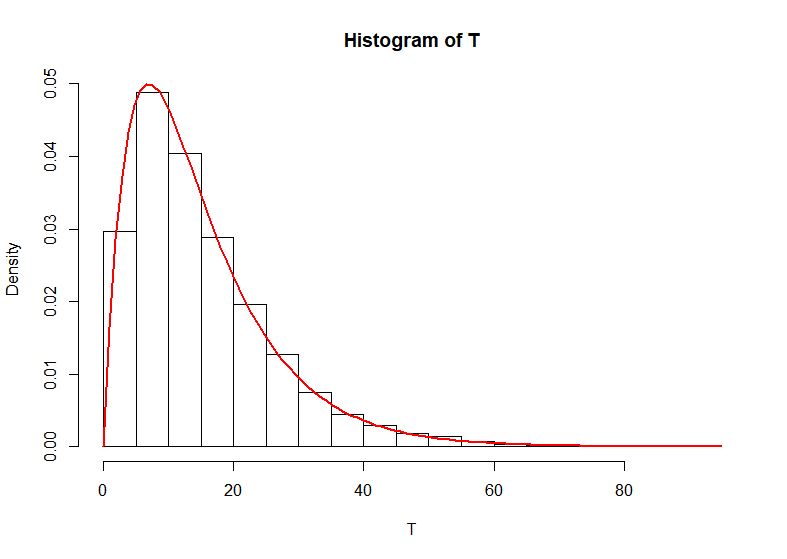


**ii.**

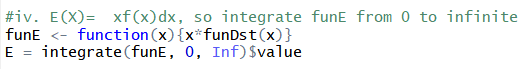


**iii.**





**iv.**





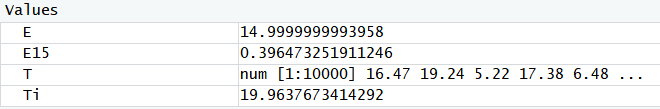
**v.**

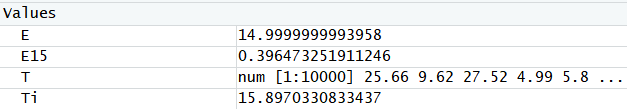


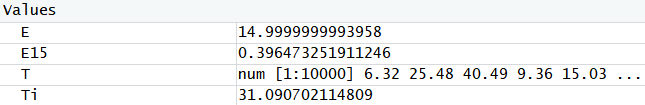


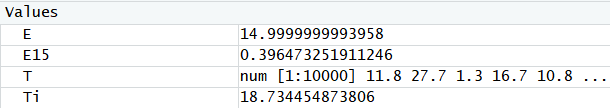
**vi.**

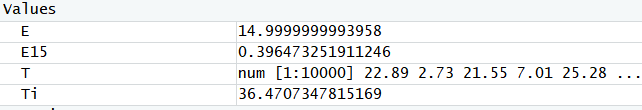
I see that the values of E(T) and P(X>15) remain unchanged and very close to the computed values.



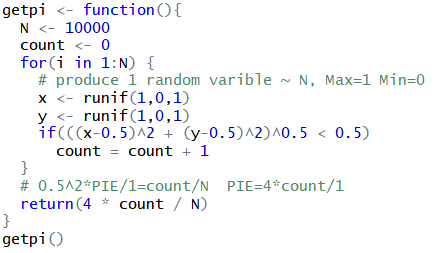








**2.**



Value of PIE

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PIE | 3.1652 | 3.1504 | 3.1404 | 3.1432 | 3.1527 | 3.1398 | 3.1567 | 3.1467 | 3.1323 |