Documentație PS

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## Problema 1

### Problema 1.4

n = 25, p = 0.05

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k | Binomiala | Poisson | Normala | Normala Corectie | Camp-Paulson |
| 1 | 0.3649863 | 0.6446358 | 0.3885807 | 0.3148117 | 0.3722101 |
| 2 | 0.2305177 | 0.8684677 | 0.3148117 | 0.3885807 | 0.2077041 |
| 3 | 0.0930159 | 0.9617309 | 0.1098750 | 0.2066284 | 0.0770402 |
| 4 | 0.0269257 | 0.9908757 | 0.0165206 | 0.0473344 | 0.0212714 |
| 5 | 0.0059520 | 0.9981619 | 0.0010701 | 0.0046714 | 0.0046444 |
| 6 | 0.0010442 | 0.9996799 | 0.0000299 | 0.0001986 | 0.0008319 |
| 7 | 0.0001492 | 0.9999509 | 0.0000004 | 0.0000036 | 0.0001253 |
| 8 | 0.0000177 | 0.9999933 | 0.0000000 | 0.0000000 | 0.0000161 |
| 9 | 0.0000018 | 0.9999992 | 0.0000000 | 0.0000000 | 0.0000018 |
| 10 | 0.0000001 | 0.9999999 | 0.0000000 | 0.0000000 | 0.0000002 |

n = 25, p = 0.1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k | Binomiala | Poisson | Normala | Normala Corectie | Camp-Paulson |
| 1 | 0.1994161 | 0.2872975 | 0.2419707 | 0.1640101 | 0.3310175 |
| 2 | 0.2658881 | 0.5438131 | 0.3773832 | 0.3194480 | 0.3970971 |
| 3 | 0.2264973 | 0.7575761 | 0.3773832 | 0.3989423 | 0.3074928 |
| 4 | 0.1384150 | 0.8911780 | 0.2419707 | 0.3194480 | 0.1727436 |
| 5 | 0.0645937 | 0.9579790 | 0.0994771 | 0.1640101 | 0.0750264 |
| 6 | 0.0239236 | 0.9858127 | 0.0262219 | 0.0539910 | 0.0262020 |
| 7 | 0.0072150 | 0.9957533 | 0.0044318 | 0.0113960 | 0.0075525 |
| 8 | 0.0018038 | 0.9988597 | 0.0004803 | 0.0015423 | 0.0018294 |
| 9 | 0.0003786 | 0.9997226 | 0.0000334 | 0.0001338 | 0.0003771 |
| 10 | 0.0000673 | 0.9999384 | 0.0000015 | 0.0000074 | 0.0000668 |

n = 50, p = 0.05

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k | Binomiala | Poisson | Normala | Normala Corectie | Camp-Paulson |
| 1 | 0.2024868 | 0.2872975 | 0.2484229 | 0.1718654 | 0.3359168 |
| 2 | 0.2611014 | 0.5438131 | 0.3784883 | 0.3232062 | 0.3967366 |
| 3 | 0.2198748 | 0.7575761 | 0.3784883 | 0.3989423 | 0.3096430 |
| 4 | 0.1359752 | 0.8911780 | 0.2484229 | 0.3232062 | 0.1797870 |
| 5 | 0.0658406 | 0.9579790 | 0.1070212 | 0.1718654 | 0.0829018 |
| 6 | 0.0259897 | 0.9858127 | 0.0302613 | 0.0599841 | 0.0316345 |
| 7 | 0.0085981 | 0.9957533 | 0.0056162 | 0.0137412 | 0.0102749 |
| 8 | 0.0024324 | 0.9988597 | 0.0006841 | 0.0020661 | 0.0028990 |
| 9 | 0.0005974 | 0.9997226 | 0.0000547 | 0.0002039 | 0.0007215 |
| 10 | 0.0001289 | 0.9999384 | 0.0000029 | 0.0000132 | 0.0001603 |

n = 50, p = 0.1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k | Binomiala | Poisson | Normala | Normala Corectie | Camp-Paulson |
| 1 | 0.0286321 | 0.0404277 | 0.0674266 | 0.0420482 | 0.0744833 |
| 2 | 0.0779429 | 0.1246520 | 0.1467627 | 0.1022791 | 0.1891682 |
| 3 | 0.1385651 | 0.2650259 | 0.2557940 | 0.1992125 | 0.3175946 |
| 4 | 0.1809045 | 0.4404933 | 0.3569892 | 0.3106966 | 0.3930307 |
| 5 | 0.1849246 | 0.6159607 | 0.3989423 | 0.3880130 | 0.3817036 |
| 6 | 0.1541038 | 0.7621835 | 0.3569892 | 0.3880130 | 0.3029889 |
| 7 | 0.1076281 | 0.8666283 | 0.2557940 | 0.3106966 | 0.2022325 |
| 8 | 0.0642779 | 0.9319064 | 0.1467627 | 0.1992125 | 0.1158889 |
| 9 | 0.0333293 | 0.9681719 | 0.0674266 | 0.1022791 | 0.0579269 |
| 10 | 0.0151833 | 0.9863047 | 0.0248048 | 0.0420482 | 0.0255710 |

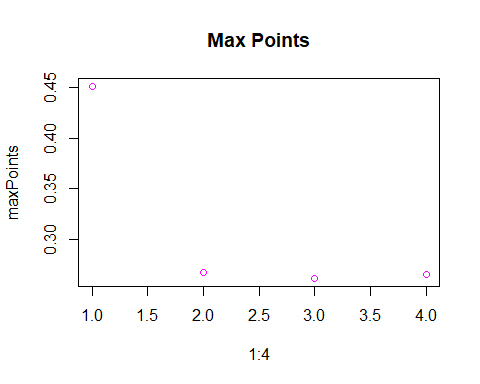
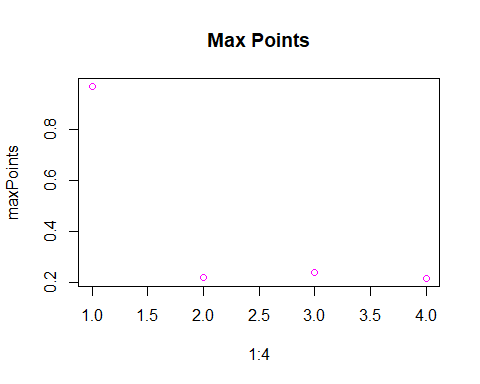
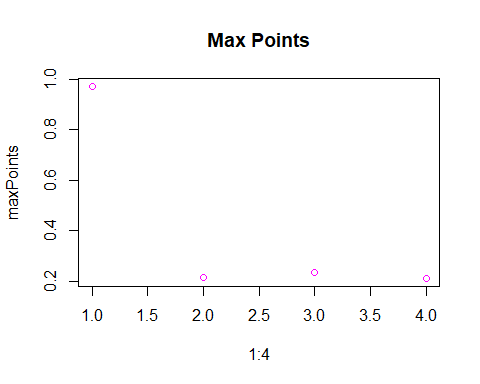
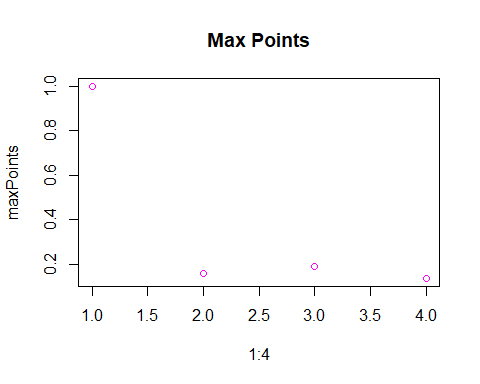
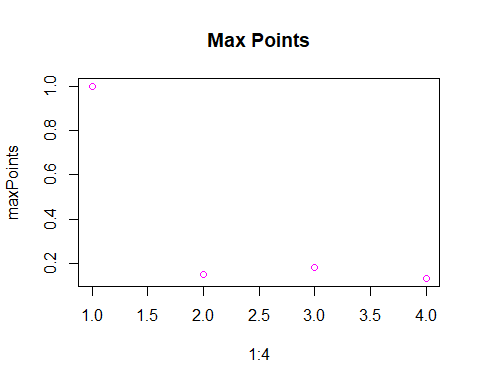
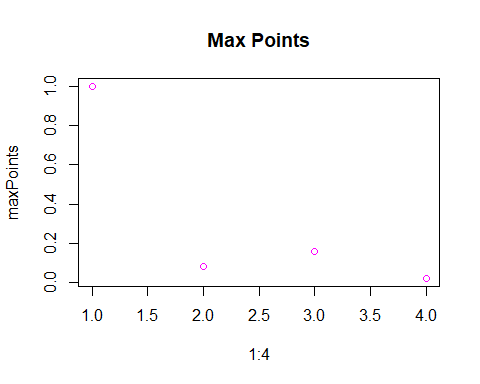
n = 100, p = 0.05

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k | Binomiala | Poisson | Normala | Normala Corectie | Camp-Paulson |
| 1 | 0.0311607 | 0.0404277 | 0.0740401 | 0.0473344 | 0.0803160 |
| 2 | 0.0811818 | 0.1246520 | 0.1546939 | 0.1098750 | 0.1969145 |
| 3 | 0.1395757 | 0.2650259 | 0.2618480 | 0.2066284 | 0.3225671 |
| 4 | 0.1781426 | 0.4404933 | 0.3590830 | 0.3148117 | 0.3938319 |
| 5 | 0.1800178 | 0.6159607 | 0.3989423 | 0.3885807 | 0.3817176 |
| 6 | 0.1500149 | 0.7621835 | 0.3590830 | 0.3885807 | 0.3060153 |
| 7 | 0.1060255 | 0.8666283 | 0.2618480 | 0.3148117 | 0.2088405 |
| 8 | 0.0648709 | 0.9319064 | 0.1546939 | 0.2066284 | 0.1239318 |
| 9 | 0.0349013 | 0.9681719 | 0.0740401 | 0.1098750 | 0.0650006 |
| 10 | 0.0167159 | 0.9863047 | 0.0287098 | 0.0473344 | 0.0305208 |

n = 100, p = 0.1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k | Binomiala | Poisson | Normala | Normala Corectie | Camp-Paulson |
| 1 | 0.0002951 | 0.0004994 | 0.0044318 | 0.0026510 | 0.0013675 |
| 2 | 0.0016232 | 0.0027694 | 0.0113960 | 0.0072061 | 0.0064760 |
| 3 | 0.0058916 | 0.0103361 | 0.0262219 | 0.0175283 | 0.0217683 |
| 4 | 0.0158746 | 0.0292527 | 0.0539910 | 0.0381526 | 0.0558858 |
| 5 | 0.0338658 | 0.0670860 | 0.0994771 | 0.0743112 | 0.1149998 |
| 6 | 0.0595787 | 0.1301414 | 0.1640101 | 0.1295176 | 0.1962226 |
| 7 | 0.0888952 | 0.2202206 | 0.2419707 | 0.2019987 | 0.2846667 |
| 8 | 0.1148230 | 0.3328197 | 0.3194480 | 0.2819119 | 0.3579221 |
| 9 | 0.1304163 | 0.4579297 | 0.3773832 | 0.3520653 | 0.3959745 |
| 10 | 0.1318653 | 0.5830398 | 0.3989423 | 0.3934397 | 0.3901782 |

### Problema 1.5



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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

## speed dist   
## Min. : 4.0 Min. : 2.00   
## 1st Qu.:12.0 1st Qu.: 26.00   
## Median :15.0 Median : 36.00   
## Mean :15.4 Mean : 42.98   
## 3rd Qu.:19.0 3rd Qu.: 56.00   
## Max. :25.0 Max. :120.00

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.