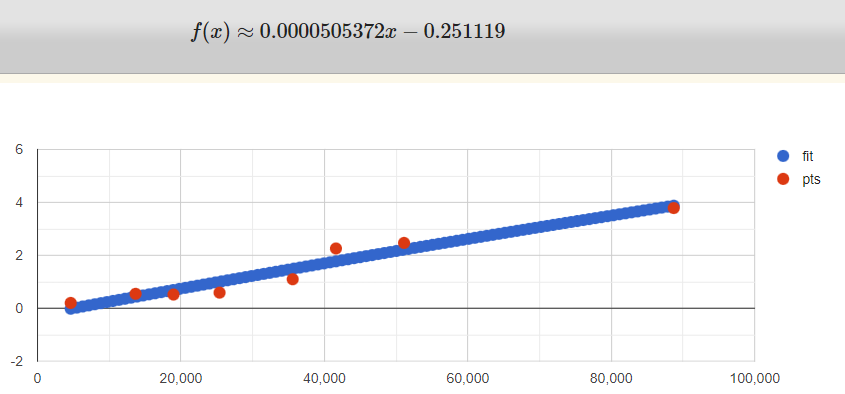
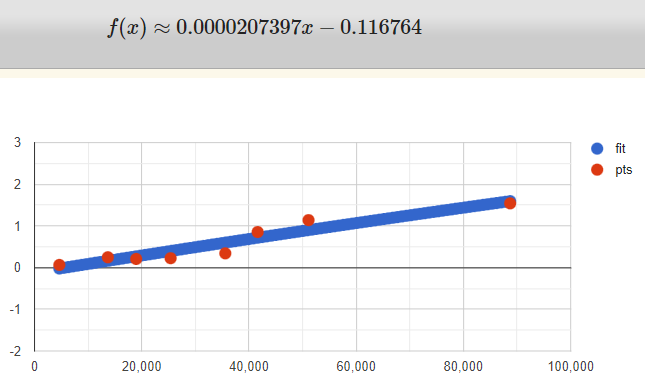
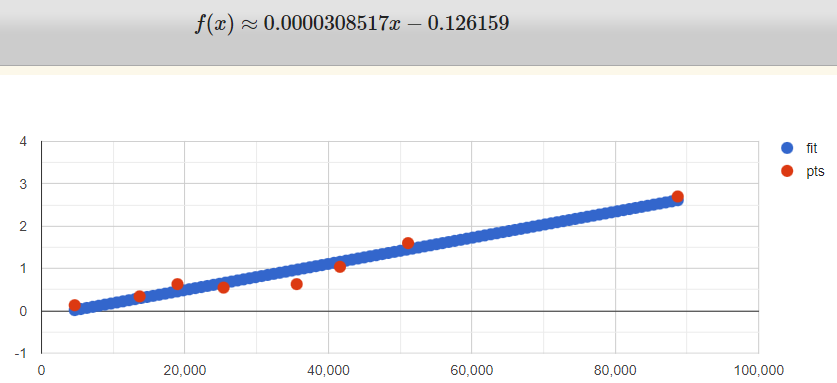
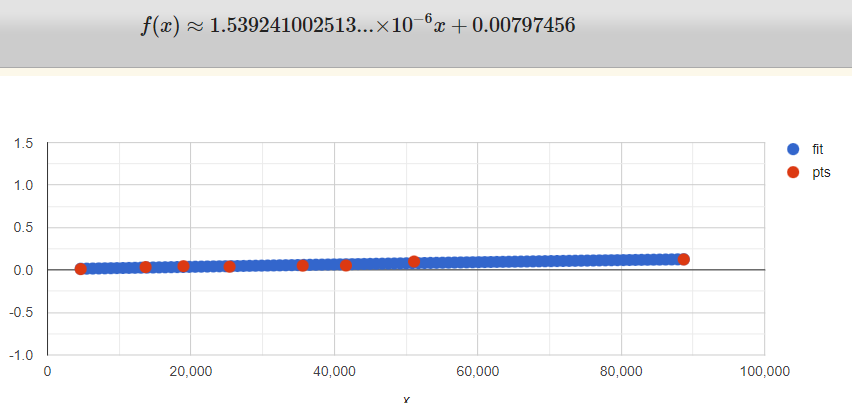
Preliminary Tests

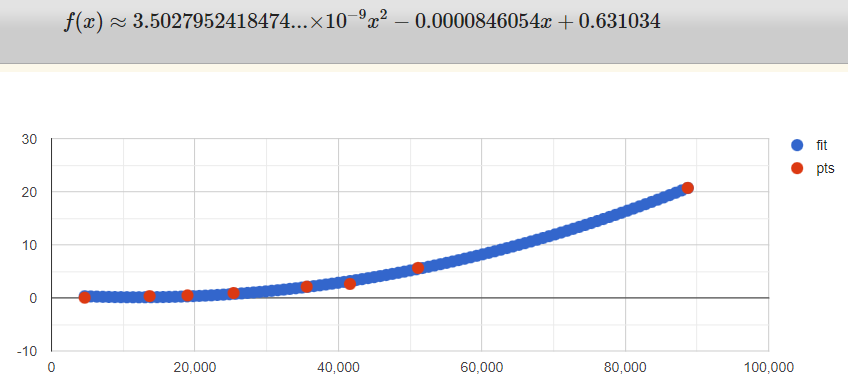
|  |  |  |
| --- | --- | --- |
| IOC Analysis | | |
| Length | Time without key | Time with key |
| 4627 | 0.0644993782043457 | 0.20001626014709473 |
| 13677 | 0.24896228313446045 | 0.5449903011322021 |
| 18960 | 0.20814752578735352 | 0.5167590379714966 |
| 25385 | 0.22606706619262695 | 0.5890471935272217 |
| 35581 | 0.3431018590927124 | 1.0961120128631592 |
| 41616 | 0.854750394821167 | 2.2570455074310303 |
| 51109 | 1.1401772499084473 | 2.4671109914779663 |
| 88713 | 1.5423694849014282 | 3.7849522829055786 |



|  |  |  |
| --- | --- | --- |
| Shifted Text Analysis | | |
| Length | Time without key | Time with key |
| 4627 | 0.011499285697937012 | 0.1324833631515503 |
| 13677 | 0.035041093826293945 | 0.34124886989593506 |
| 18960 | 0.045148253440856934 | 0.629663348197937 |
| 25385 | 0.03912484645843506 | 0.5480700731277466 |
| 35581 | 0.05152273178100586 | 0.6299808025360107 |
| 41616 | 0.05374646186828613 | 1.0390523672103882 |
| 51109 | 0.10039055347442627 | 1.5986533164978027 |
| 88713 | 0.1249089241027832 | 2.699819564819336 |



|  |  |  |
| --- | --- | --- |
| Kasiski Examination | | |
| Length | Time without key | Time with key |
| 4627 | 0.041611433029174805 | 0.12687134742736816 |
| 13677 | 0.33304476737976074 | 0.6359319686889648 |
| 18960 | 0.47119879722595215 | 1.051891565322876 |
| 25385 | 0.914164662361145 | 1.5586680173873901 |
| 35581 | 2.109712600708008 | 2.7820682525634766 |
| 41616 | 2.619999408721924 | 3.799422860145569 |
| 51109 | 5.644468665122986 | 7.133029818534851 |
| 88713 | 20.71704137325287 | 24.37022626399994 |

Chart, line chart

Description automatically generated