In[•]:=
```
values = Table[
 xVal = N[Exp[59 + 100 * k], 100];
 piApprox = N[LogIntegral[xVal], 100];
 piApproxOverE = N[LogIntegral[xVal / Exp[1]], 100];
 result = (piApprox)^2 - (E * xVal / Log[xVal]) * piApproxOverE;
 {k, "e^" <> ToString[59 + 100 * k], N[result, 8]},
 {k, 0, 31}
];
values
```

Out[•]=

$$\{\{0, e^{59}, -5.3863026\times10^{40}\}, \{1, e^{159}, -8.6366147\times10^{124}\},$$
$$\{2, e^{259}, -3.2250049\times10^{210}\}, \{3, e^{359}, -3.2357043\times10^{296}\},$$
$$\{4, e^{459}, -5.3064365\times10^{382}\}, \{5, e^{559}, -1.1686993\times10^{469}\},$$
$$\{6, e^{659}, -3.1339236\times10^{555}\}, \{7, e^{759}, -9.6742945\times10^{641}\},$$
$$\{8, e^{859}, -3.3194561\times10^{728}\}, \{9, e^{959}, -1.2367077\times10^{815}\},$$
$$\{10, e^{1059}, -4.9214899\times10^{901}\}, \{11, e^{1159}, -2.0671392\times10^{988}\},$$
$$\{12, e^{1259}, -9.0822473\times10^{1074}\}, \{13, e^{1359}, -4.1454353\times10^{1161}\},$$
$$\{14, e^{1459}, -1.9549848\times10^{1248}\}, \{15, e^{1559}, -9.4847597\times10^{1334}\},$$
$$\{16, e^{1659}, -4.7172079\times10^{1421}\}, \{17, e^{1759}, -2.3980349\times10^{1508}\},$$
$$\{18, e^{1859}, -1.2430367\times10^{1595}\}, \{19, e^{1959}, -6.5566576\times10^{1681}\},$$
$$\{20, e^{2059}, -3.5131458\times10^{1768}\}, \{21, e^{2159}, -1.9093149\times10^{1855}\},$$
$$\{22, e^{2259}, -1.0511565\times10^{1942}\}, \{23, e^{2359}, -5.8557034\times10^{2028}\},$$
$$\{24, e^{2459}, -3.2975152\times10^{2115}\}, \{25, e^{2559}, -1.8754944\times10^{2202}\},$$
$$\{26, e^{2659}, -1.0765501\times10^{2289}\}, \{27, e^{2759}, -6.2322859\times10^{2375}\},$$
$$\{28, e^{2859}, -3.6365683\times10^{2462}\}, \{29, e^{2959}, -2.1376236\times10^{2549}\},$$
$$\{30, e^{3059}, -1.2651826\times10^{2636}\}, \{31, e^{3159}, -7.5364298\times10^{2722}\}\}$$