In[1]:=
```
values = Table[
 xVal = N[Exp[43.5102147], 100];
 piApprox = N[LogIntegral[xVal], 100];
 piApproxOverE = N[LogIntegral[xVal / Exp[1]], 100];
 result = (piApprox)^2 - (E * xVal / Log[xVal]) * piApproxOverE;
 {"e^" <> ToString[43.5102147], N[result, 8]}];
values
```

Out[2]=
$$\left\{\text{e\^{}43.5102},\ -1.29848\times 10^{28}\right\}$$

In[•]:=
```
values = Table[
 xVal = N[Exp[49], 100];
 piApprox = N[LogIntegral[xVal], 100];
 piApproxOverE = N[LogIntegral[xVal / Exp[1]], 100];
 result = (piApprox)^2 - (E * xVal / Log[xVal]) * piApproxOverE;
 {"e^" <> ToString[49], N[result, 8]}];
values
```

Out[•]=
$$\left\{\text{e\^{}49},\ -3.5777143\times 10^{32}\right\}$$

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;
 {"e^" <> ToString[59 + 100 * k], N[result, 8]},
 {k, 0, 31}
];
values
```

Out[•]=
$$\left\{\left\{\text{e\^{}59},\ -5.3863026\times 10^{40}\right\},\ \left\{\text{e\^{}159},\ -8.6366147\times 10^{124}\right\},\ \left\{\text{e\^{}259},\ -3.2250049\times 10^{210}\right\},\right.$$
$$\left\{\text{e\^{}359},\ -3.2357043\times 10^{296}\right\},\ \left\{\text{e\^{}459},\ -5.3064365\times 10^{382}\right\},\ \left\{\text{e\^{}559},\ -1.1686993\times 10^{469}\right\},$$
$$\left\{\text{e\^{}659},\ -3.1339236\times 10^{555}\right\},\ \left\{\text{e\^{}759},\ -9.6742945\times 10^{641}\right\},\ \left\{\text{e\^{}859},\ -3.3194561\times 10^{728}\right\},$$
$$\left\{\text{e\^{}959},\ -1.2367077\times 10^{815}\right\},\ \left\{\text{e\^{}1059},\ -4.9214899\times 10^{901}\right\},\ \left\{\text{e\^{}1159},\ -2.0671392\times 10^{988}\right\},$$
$$\left\{\text{e\^{}1259},\ -9.0822473\times 10^{1074}\right\},\ \left\{\text{e\^{}1359},\ -4.1454353\times 10^{1161}\right\},$$
$$\left\{\text{e\^{}1459},\ -1.9549848\times 10^{1248}\right\},\ \left\{\text{e\^{}1559},\ -9.4847597\times 10^{1334}\right\},\ \left\{\text{e\^{}1659},\ -4.7172079\times 10^{1421}\right\},$$
$$\left\{\text{e\^{}1759},\ -2.3980349\times 10^{1508}\right\},\ \left\{\text{e\^{}1859},\ -1.2430367\times 10^{1595}\right\},\ \left\{\text{e\^{}1959},\ -6.5566576\times 10^{1681}\right\},$$
$$\left\{\text{e\^{}2059},\ -3.5131458\times 10^{1768}\right\},\ \left\{\text{e\^{}2159},\ -1.9093149\times 10^{1855}\right\},\ \left\{\text{e\^{}2259},\ -1.0511565\times 10^{1942}\right\},$$
$$\left\{\text{e\^{}2359},\ -5.8557034\times 10^{2028}\right\},\ \left\{\text{e\^{}2459},\ -3.2975152\times 10^{2115}\right\},\ \left\{\text{e\^{}2559},\ -1.8754944\times 10^{2202}\right\},$$
$$\left\{\text{e\^{}2659},\ -1.0765501\times 10^{2289}\right\},\ \left\{\text{e\^{}2759},\ -6.2322859\times 10^{2375}\right\},\ \left\{\text{e\^{}2859},\ -3.6365683\times 10^{2462}\right\},$$
$$\left.\left\{\text{e\^{}2959},\ -2.1376236\times 10^{2549}\right\},\ \left\{\text{e\^{}3059},\ -1.2651826\times 10^{2636}\right\},\ \left\{\text{e\^{}3159},\ -7.5364298\times 10^{2722}\right\}\right\}$$