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In[1]:= values = Table[
  xVal = N[Exp[43.5102146], 100];
  piApprox = N[LogIntegral[xVal], 100];
  piApproxOverE = N[LogIntegral[xVal / Exp[1]], 100];
  result = (piApprox)^2 - (E * xVal / Log[xVal]) * piApproxOverE;
  {"e^" <> ToString[43.5102146], N[result, 8]};
values
Out[2]= {e^43.5102, -1.29848 × 1028}

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In[3]:= 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[4]= {e^49, -3.5777143 × 1032}

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In[5]:= 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

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Out[6]= { {e^59, -5.3863026 × 1040}, {e^159, -8.6366147 × 10124}, {e^259, -3.2250049 × 10210},
  {e^359, -3.2357043 × 10296}, {e^459, -5.3064365 × 10382}, {e^559, -1.1686993 × 10469},
  {e^659, -3.1339236 × 10555}, {e^759, -9.6742945 × 10641}, {e^859, -3.3194561 × 10728},
  {e^959, -1.2367077 × 10815}, {e^1059, -4.9214899 × 10901}, {e^1159, -2.0671392 × 10988},
  {e^1259, -9.0822473 × 101074}, {e^1359, -4.1454353 × 101161},
  {e^1459, -1.9549848 × 101248}, {e^1559, -9.4847597 × 101334}, {e^1659, -4.7172079 × 101421},
  {e^1759, -2.3980349 × 101508}, {e^1859, -1.2430367 × 101595}, {e^1959, -6.5566576 × 101681},
  {e^2059, -3.5131458 × 101768}, {e^2159, -1.9093149 × 101855}, {e^2259, -1.0511565 × 101942},
  {e^2359, -5.8557034 × 102028}, {e^2459, -3.2975152 × 102115}, {e^2559, -1.8754944 × 102202},
  {e^2659, -1.0765501 × 102289}, {e^2759, -6.2322859 × 102375}, {e^2859, -3.6365683 × 102462},
  {e^2959, -2.1376236 × 102549}, {e^3059, -1.2651826 × 102636}, {e^3159, -7.5364298 × 102722} }

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