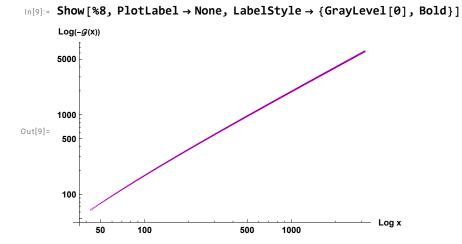
```
In[1]:= PrimePiApprox[x_] := If[x < 2, 0, N[LogIntegral[x], 100]]</pre>
                             G[x_] := Module[{e = Exp[1], logx, piX, piXDivE}, logx = Log[x];
                                         piX = PrimePiApprox[x];
                                         piXDivE = PrimePiApprox[x / e];
                                         piX^2 - (e * x / logx) * piXDivE]
                             xMin = Exp[43];
                              xMax = Exp[3159];
                             xValues = Exp[Range[Log[xMin], Log[xMax], 1]];
                              gValues = G /@ xValues;
                              logNegGValues = Log[Abs[-gValues]];
                              ListLogLogPlot[Transpose[\{Log[xValues], logNegGValues\}], PlotStyle \rightarrow Darker[Magenta], PlotStyle \rightarrow Dar
                                   AxesLabel \rightarrow {"Log x", "Log(-G(x))"}, PlotLabel \rightarrow "Plot of Log (-G(x)) against Log x",
                                   GridLines → None, AspectRatio → 1 / GoldenRatio]
                                                                                                        Plot of Log (-G(x)) against Log x
                              Log(-G(x))
                              5000
                              1000
Out[8]=
                                  500
```

Log x



500

1000

100

100

In[11]:= Show[%9, AxesStyle \rightarrow Thick]

Out[11]=

