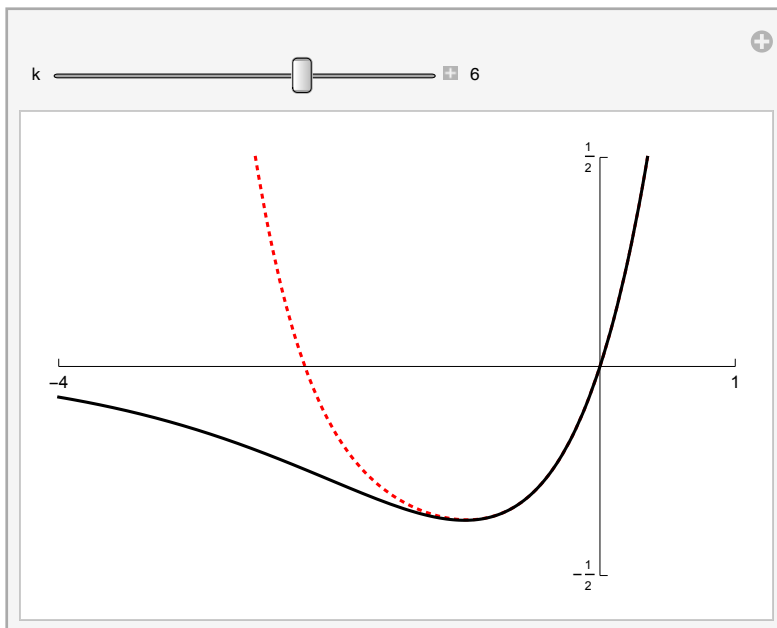


```

In[2]:= Manipulate[
  Plot[
    {Normal@Series[n E^n, {n, 0, k}] /. n -> x, x E^x},
    {x, -4, 1},
    PlotStyle -> {{Dotted, Red}, Black},
    PlotRange -> {{-4, 1}, {-1/2, 1/2}},
    Ticks -> {{-4, 1}, {-1/2, 1/2}}
  ],
  {{k, 6}, 0, 9, 1, Appearance -> "Labeled"}
]

```

Out[2]=



```

In[27]:= Manipulate[
  Plot[
    {Normal@Series[1/(n^2 + 1), {n, 0, k}] /. n -> x, 1/(x^2 + 1)},
    {x, -3, 3},
    PlotStyle -> {{Dotted, Red}, Black},
    PlotRange -> {{-3, 3}, {-0.1, 1.1}},
    Ticks -> {{-3, -1, 1, 3}, None},
    Epilog -> {
      Black, Dashed,
      Line[{{{-1, 1/2}, {-1, 0}}, {{1, 1/2}, {1, 0}}}]
    }
  ],
  {{k, 28}, 1, 35, 1, Appearance -> "Labeled"}
]

```

Out[27]=

