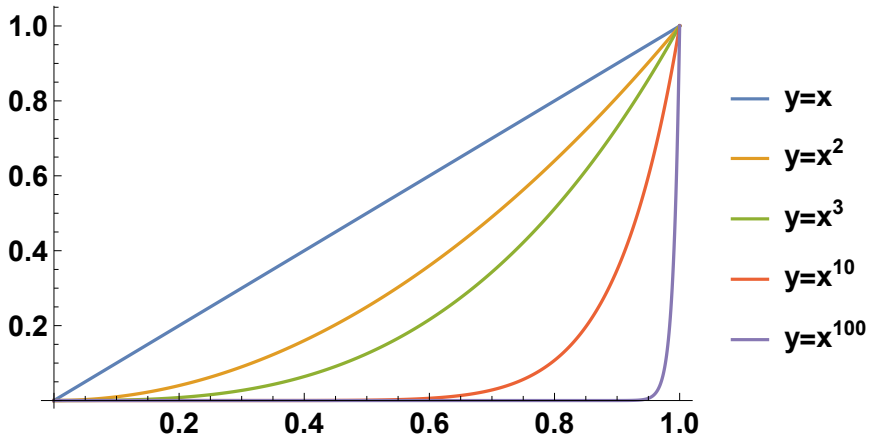
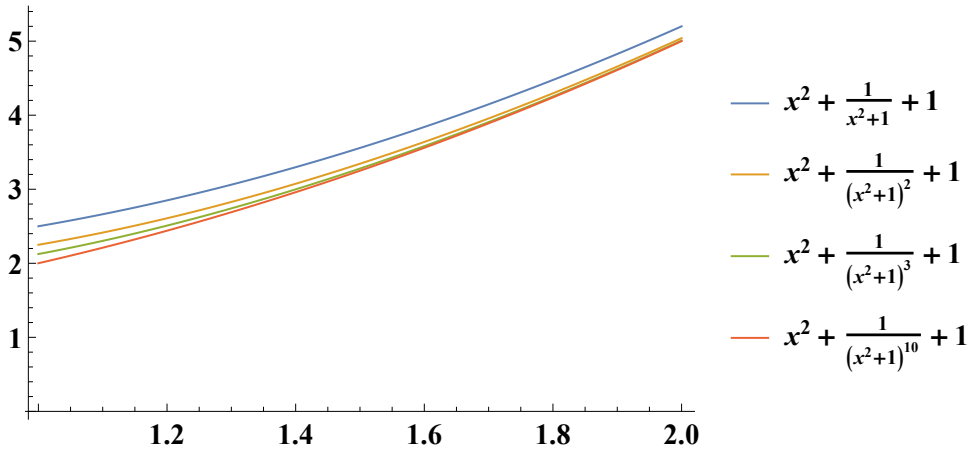
In[1]:=
```
legend = Table[ToString["y=x"^i, TraditionalForm], {i, {1, 2, 3, 10, 100}}];
ListLinePlot[Table[{x, x^n}, {n, {1, 2, 3, 10, 100}}, {x, 0, 1, 0.001}],
 PlotLegends → legend, AxesLabel → Automatic, PlotStyle → Thickness[0.005],
 LabelStyle → Directive[15, Bold, FontFamily → "Helvetica"]]
```

Out[2]=



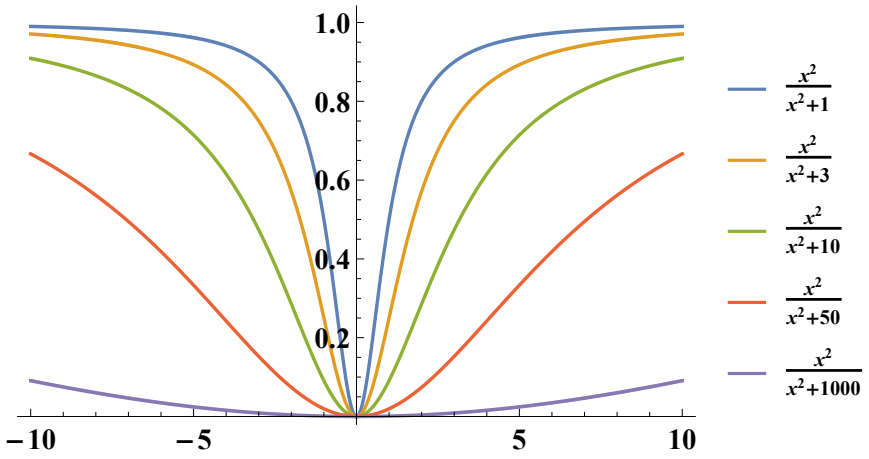
In[3]:=
```
legend =
  Table[ToString[(x^2 + 1) + 1 / (x^2 + 1)^i, TraditionalForm], {i, {1, 2, 3, 10}}];
ListLinePlot[Table[{x, x^2 + 1 + 1 / (x^2 + 1)^n},
  {n, {1, 2, 3, 10}}, {x, 1, 2, 0.001}], PlotLegends → legend,
 AxesLabel → Automatic, PlotStyle → Thickness[0.003],
 LabelStyle → Directive[15, Bold, FontFamily → "Times New Roman"]]
```

Out[4]=



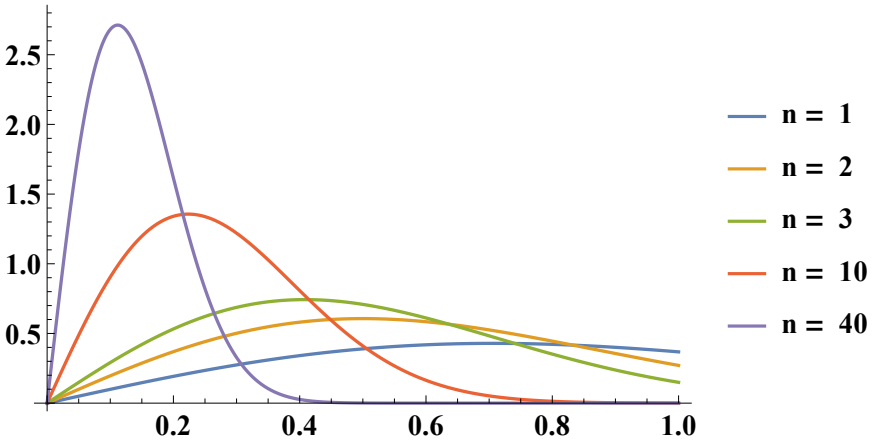
In[5]:=
```
legend =
  Table[ToString[x^2 / (x^2 + i), TraditionalForm], {i, {1, 3, 10, 50, 1000}}];
ListLinePlot[Table[{x, x^2 / (x^2 + n)}, {n, {1, 3, 10, 50, 1000}},
  {x, -10, 10, 0.001}], PlotLegends → legend,
 AxesLabel → Automatic, PlotStyle → Thickness[0.005],
 LabelStyle → Directive[15, Bold, FontFamily → "Times New Roman"]]
```

Out[6]=



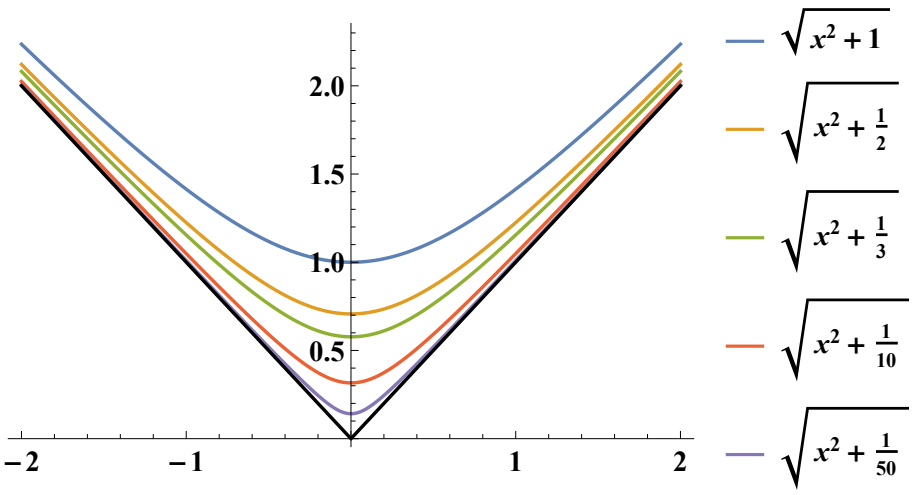
In[7]:=
```
legend = Table[ToString@StringForm["n =  ``", i], {i, {1, 2, 3, 10, 40}}];
ListLinePlot[Table[{x, n * x * Exp[-n * x^2]},
  {n, {1, 2, 3, 10, 40}}, {x, 0, 1, 0.001}], PlotLegends → legend,
 AxesLabel → Automatic, PlotStyle → Thickness[0.005], LabelStyle →
  Directive[15, Bold, FontFamily → "Times New Roman"], PlotRange → All]
```

Out[8]=



In[9]:=
```
legend =
  Table[ToString[Sqrt[x^2 + 1 / i], TraditionalForm], {i, {1, 2, 3, 10, 50}}];
A = ListLinePlot[Table[{x, Sqrt[x^2 + 1 / n]}, {n, {1, 2, 3, 10, 50}},
    {x, -2, 2, 0.001}], PlotLegends → legend,
   AxesLabel → Automatic, PlotStyle → Thickness[0.005], LabelStyle →
    Directive[15, Bold, FontFamily → "Times New Roman"], PlotRange → All];
B = Plot[Abs[x], {x, -2, 2}, AxesLabel → Automatic,
  PlotStyle → {Black, Thickness[0.005]}, PlotRange → All];
Show[A, B]
```

Out[11]=



In[12]:=
```
legend = Table[ToString[Sin[i * x] / i, TraditionalForm], {i, {1, 2, 3, 10, 50}}];
A = ListLinePlot[Table[{x, Sin[i * x] / i}, {i, {1, 2, 3, 10, 50}}, {x, -2, 2, 0.001}],
    PlotLegends → legend, AxesLabel → Automatic, PlotStyle → Thickness[0.005],
    LabelStyle → Directive[15, Bold, FontFamily → "Times New Roman"],
    PlotRange → All];
B = Plot[Cos[x], {x, -2, 2}, AxesLabel → Automatic,
  PlotStyle → {Black, Thickness[0.005]}, PlotRange → All];
Show[A, B]
```

Out[14]=