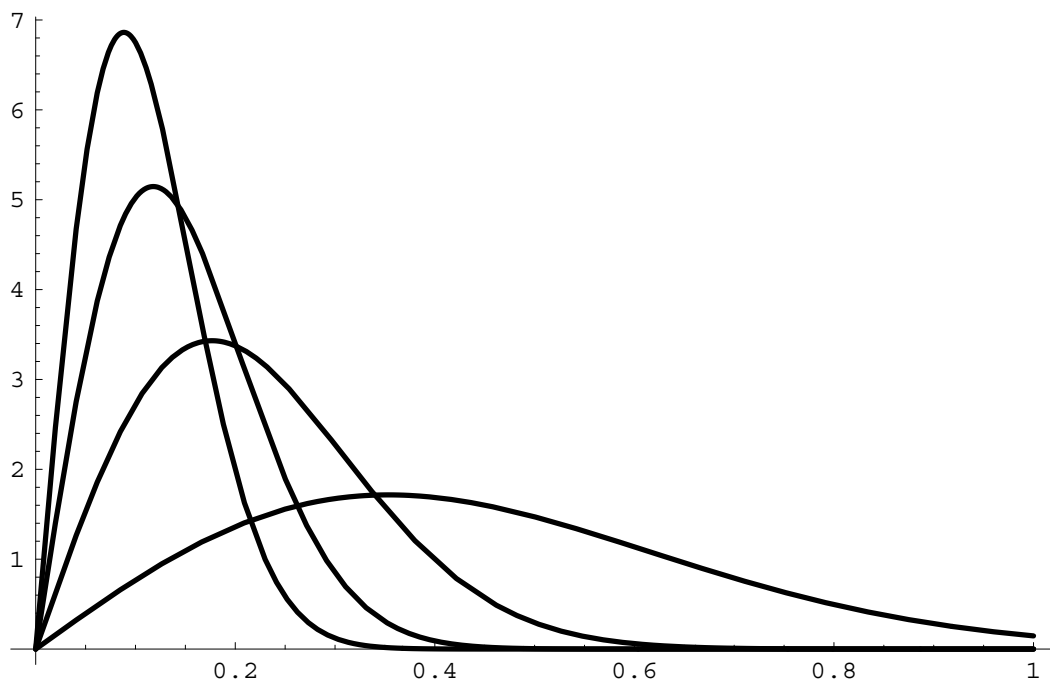


Darboux's Example

$$f[n_, x_] := 2 n^2 x e^{-n^2 x^2}$$

We use Mathematica to plot the graphs of the functions corresponding to $n=2, 4, 6,$ and 8 .

```
Plot[{f[2, x], f[4, x], f[6, x], f[8, x]},  
      {x, 0, 1}, PlotStyle -> {Thickness[.005]}]
```



- Graphics -