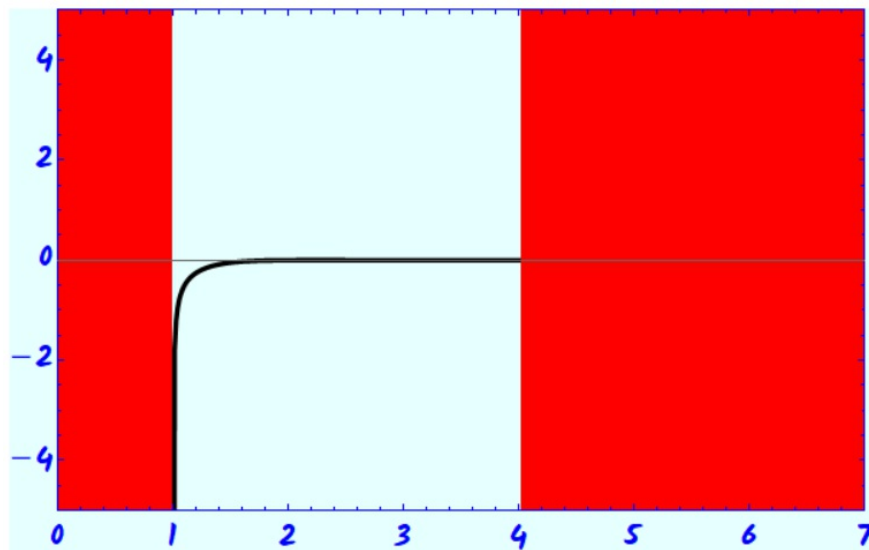# Exemplo

$f(x)$

$$\dfrac{e^{-x^2}\,(-2+x)}{\sqrt{(1-x)(-4+x)}}$$
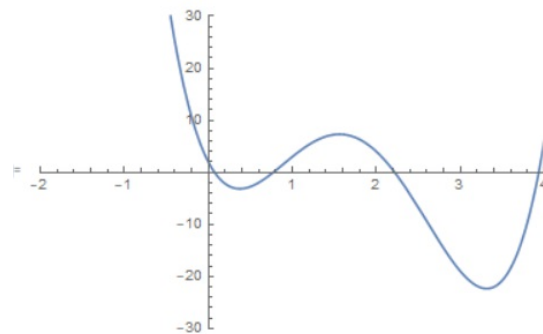

$$\dfrac{e^{-x^2}\,(x-2)}{\sqrt{(1-x)(x-4)}}$$

max e min

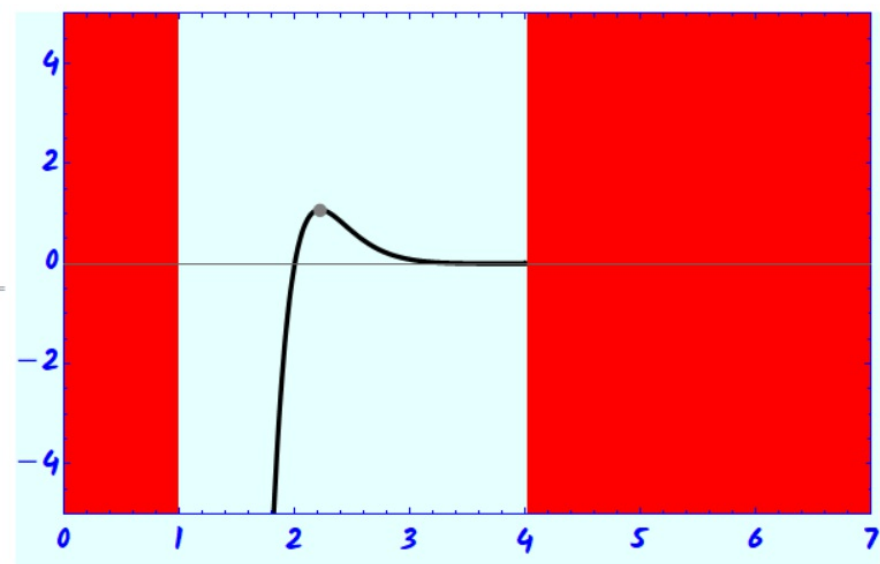$$2-31\,x+56\,x^2-28\,x^3+4\,x^4=0$$

graficando o polinômio de ordem 4

$\{\{x \to 0.0740617\},\ \{x \to 0.77348\},\ \{x \to 2.21895\},\ \{x \to 3.93351\}\}$

$f[2.22]$ $f[3.93]$

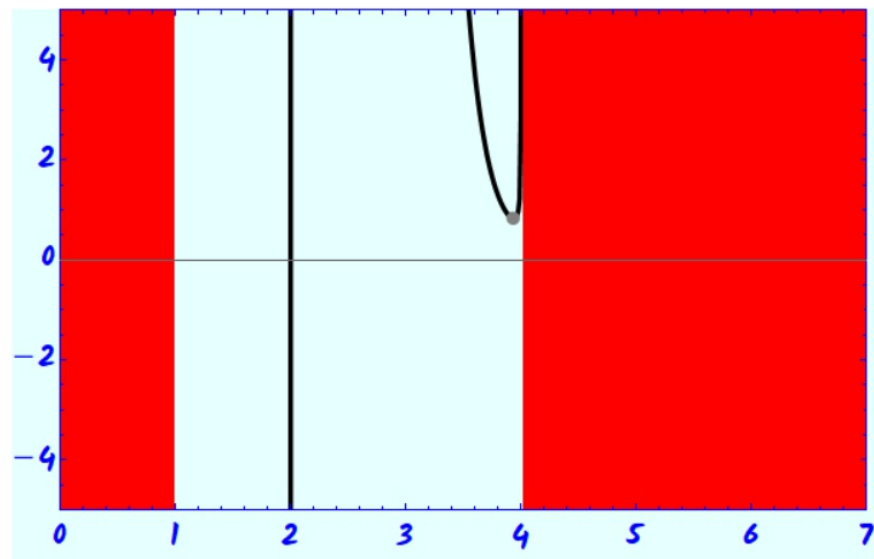0.00108058 8.35487×10^{-7}

$$\frac{1000\, e^{-x^2}\,(x-2)}{\sqrt{(1-x)\,(x-4)}}$$

$$\frac{1000\,000\, e^{-x^2}\,(x-2)}{\sqrt{(1-x)\,(x-4)}}$$