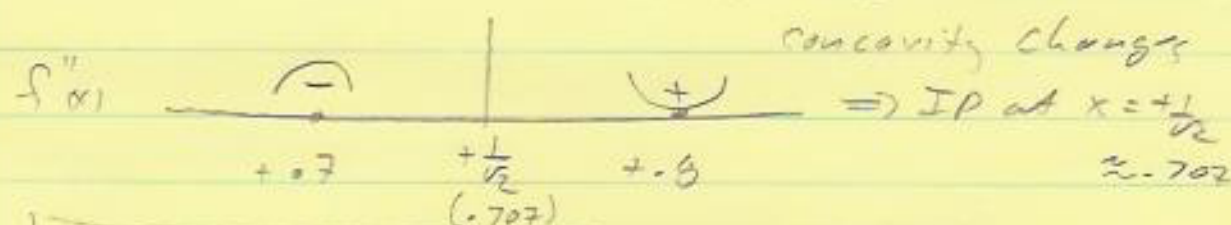


Now check IIP at $x = +\frac{1}{\sqrt{2}}$

$$f'\left(\frac{1}{\sqrt{2}}\right) \equiv f'(.707)$$

Left $f'(.7) = 2(2(.7)^2 - 1) \cdot e^{-(.7)^2}$
 $(+)(.98^{(-)})f(+) = (-)$ down

Right $f'(.8) = 2(2(.8)^2 - 1) \cdot e^{-(.8)^2}$
 $(+)(1.28^{(+)}f(+)) = (+)$



$$\Rightarrow \text{IP at } \left(\frac{1}{\sqrt{2}}, e^{-\left(\frac{1}{\sqrt{2}}\right)^2} \right) = \left(\frac{1}{\sqrt{2}}, e^{-\frac{1}{2}} \right)$$

$\approx (1.71, .6)$

Now use all of above information to make a graph.