14/2/2020 CONCAVITÁ E FLESSI

$$y = \sqrt{\frac{2-x}{x}}$$

CINIMOL

$$f(x) = \sqrt{\frac{2-x}{x}}$$

$$D = (0, 2]$$

$$\begin{cases}
(\times) = \frac{1}{2\sqrt{\frac{2-x}{x}}} \cdot \left(\frac{2-x}{x}\right)^{1} = \frac{1}{2}\sqrt{\frac{x}{2-x}} \cdot \frac{-x^{2}-2+x}{x^{2}} = -\frac{1}{x^{2}}\sqrt{\frac{x}{2-x}}$$

$$\frac{-x-2+x}{x^2} = -\frac{1}{x^2}\sqrt{\frac{x}{2-x}}$$

$$f'(2) = f'(2) = \lim_{x \to 2^{-}} -\frac{1}{x^{2}} \sqrt{\frac{x}{2-x}} = -\infty$$

$$\int_{1}^{1}(x) = 2x^{-3} \sqrt{\frac{x}{2-x}} + \left(-\frac{1}{x^{2}}\right) \cdot \frac{1}{2\sqrt{2-x}} \cdot \frac{2-x+x}{(2-x)^{2}} = \frac{1}{2\sqrt{2-x}}$$

$$=\frac{2}{\times^3}\sqrt{\frac{\times}{2-\times}} - \frac{1}{\times^2} \cdot \sqrt{\frac{2-\times}{\times}} - \frac{1}{(2-\times)^2} =$$

$$=\frac{1}{x^2}\sqrt{\frac{x}{2-x}}\left[\frac{2}{x}-\frac{1}{x}-\frac{1}{(2-x)^2}\right]=$$

$$=\frac{1}{x^{2}}\sqrt{\frac{x}{2-x}}\left[\frac{2}{x}-\frac{1}{x(2-x)}\right]=\frac{1}{x^{3}}\sqrt{\frac{x}{2-x}}\left[2-\frac{1}{2-x}\right]$$

$$f_{1}^{11}(x) = \frac{1}{x^{3}}\sqrt{\frac{x}{2}x} \left[2 - \frac{1}{2-x}\right] \qquad x \in (0,2)$$

$$2Gal bl f^{11}$$

$$2 - \frac{1}{2-x} = 0 \Rightarrow \frac{1}{2-x} = 2 \qquad 1 = 4-2x \qquad x = \frac{3}{2}$$

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$$2 - \frac{1}{2-x} > 0 \qquad \frac{4-2x-1}{2-x} > 0 \Rightarrow 4-2x-1>0$$

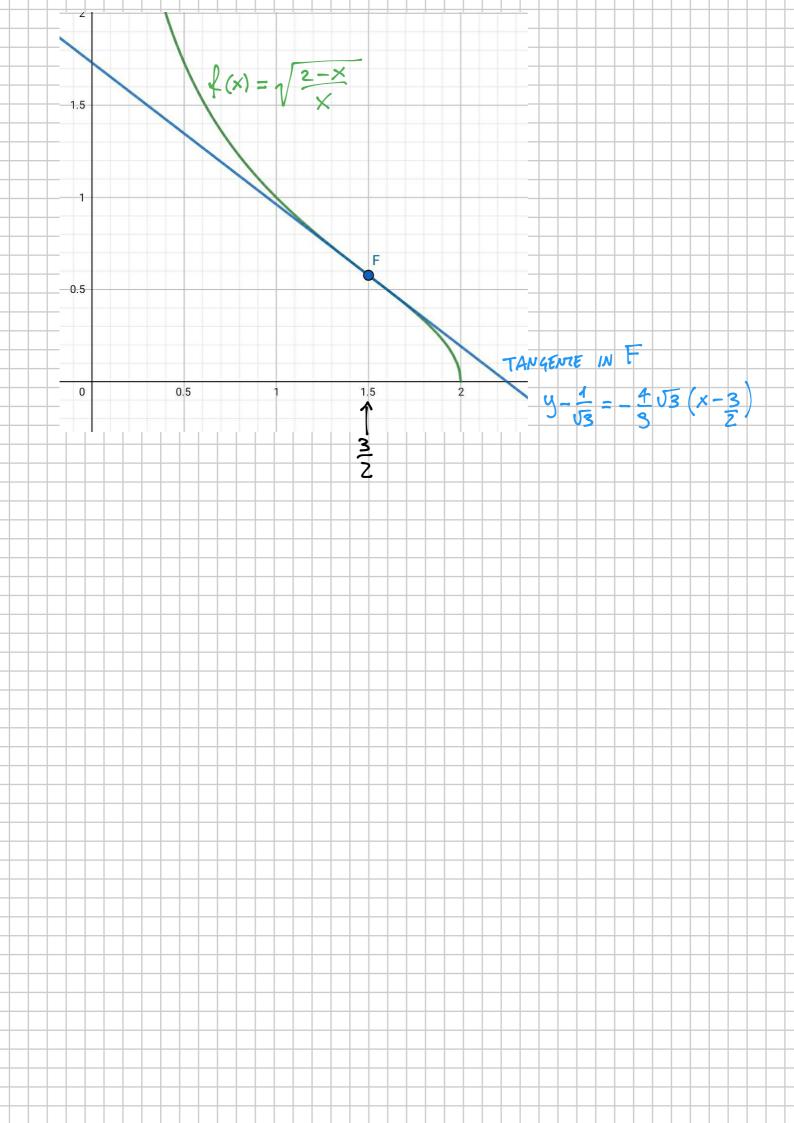
$$2 - \frac{1}{2-x} > 0 \qquad \frac{4-2x-1}{2-x} > 0 \Rightarrow 4-2x-1>0$$

$$2 - \frac{1}{2-x} > 0 \qquad \frac{3}{2} \qquad 2$$

$$x + 0 - x$$

$$x = \frac{3}{2}$$

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$$y = 2e^{-x^{2}} + 2$$

$$D = TR$$

$$\begin{cases} f'(x) = 2e^{-x^{2}} \cdot (-2x) = -4xe^{-x^{2}} \\ 4x \cdot e^{-x^{2}} \cdot (-2x) = 4e^{-x^{2}} \cdot (-1+2x^{2}) \end{cases}$$

$$\begin{cases} f''(x) = -4 \cdot e^{-x^{2}} \cdot 4x \cdot e^{-x^{2}} \cdot (-2x) = 4e^{-x^{2}} \cdot (-1+2x^{2}) \end{cases}$$

$$\begin{cases} 2E_{R1} \text{ Di } P'' - 1 + 2x^{2} = 0 \implies x = \pm \frac{1}{\sqrt{2}} \end{cases}$$

$$\begin{cases} F(x) \text{ Di } F(x) = -4xe^{-x^{2}} \cdot (-2x) = 4e^{-x^{2}} \cdot (-1+2x^{2}) \end{cases}$$

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