20 gas 2021

 $ex y = ln(-n^2-2n+3)$ studio come y = h f(n)1) f(n) = f(n) > 0 $CE - n^2 - 2n + 3 > 0$ (2) P(n) = 1 = 0 lu P(n) = 0ne (-3; 1) $\frac{\partial}{\partial x} = 0$ $\int_{0}^{\infty} \int_{0}^{\infty} (x) dx$

$$m = -1 - \sqrt{3} \longrightarrow A \left(-1 - \sqrt{3}; 0\right)$$

 $m = -1 - \sqrt{3} \rightarrow A \left(-1 - \sqrt{3}, 0\right)$

 $n = -1 + \sqrt{3} \rightarrow B(-1 + \sqrt{3}, 0)$ segus C(n) > 0 so $n \in (-1 - \sqrt{3}; -1 + \sqrt{3})$

 $\begin{cases} \mathcal{N} = 0 \\ \mathcal{Y} = \mathcal{G}(\mathcal{N}) \end{cases}$

asintoti
$$\lim_{n \to 3^+} f(n) = -\infty$$
 $n = 3$ A.O.
 $\lim_{n \to 4^-} f(n) = -\infty$ $n = 1$ A.O.
derivated prima $y' = \frac{1}{-n^2 - 2n + 3} \left(-2n - 2\right) = \frac{-2(n + 1)}{(-n^2 - 2n + 3)}$
 $y' = 0 = 0$ $n = -1$ pto stazionario

$$n=-1$$
 max

derivata secondo $y'' = \frac{-2(n^2 + 2n + 5)}{(n^2 + 2n - 3)^2}$ M"= 0 7 m ~ NO PUNTI DI FLESSO y", O In € CE max

y>0 =1 pt min $B(1, \ln 2)$

derivate acousts
$$y'' = \frac{-2(n^2 - 2n - 1)}{(n^2 - 2n + 3)^2}$$

 $y'' = 0 \Rightarrow n^2 - 2n - 1 = 0$
 $M = 1 \pm \sqrt{2}$



