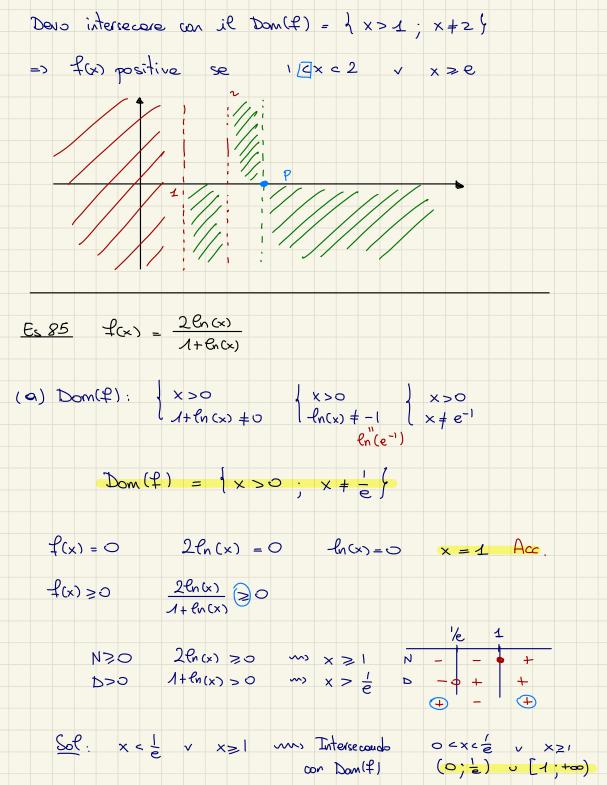
$$\begin{aligned}
& \text{Es } 82 \text{ pag } 684 \\
& \text{f(x)} &= \frac{4n^2x - 4nx}{4n\sqrt{x-1}} \\
& \text{Dom(f)} &: | x>0 \\
& | (n\sqrt{x-1}) > 0 \\
& | (n\sqrt{x-1}) + 1 | (x+2) \\
& | (n\sqrt{x-1}) + 1 | (x+2) |
\end{aligned}$$

$$\begin{aligned}
& \text{Dom(f)} &= | x>1 \\
& \text{An(1)} \\
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& \text{An(1)} \\
& \text{An(1)} \\
& \text{An(1)} \\
& \text{An(2)} &= 0 \\
& \text{A$$



(b) Per queli
$$x$$
 $f(x) \ge 1$?

 $\frac{2 \ln(x)}{1 + \ln(x)} \ge 1$ $\frac{\ln(x) - 1}{\ln(x) + 1} \ge 0$... conti.

 $\frac{2 \ln(x)}{1 + \ln(x)} \ge 1$ $\frac{\ln(x) - 1}{\ln(x) + 1} \ge 0$... conti.

(c) $f(x) = \frac{2 \ln(x)}{1 + \ln(x)}$. Those $f^{-1}(x)$ funzione inverse.

 $f^{-1}(x) = \frac{2 \ln(x)}{1 + \ln(x)}$. $\frac{2}{1 + \ln(x)} = \frac{2}{1 + \ln(x)}$.

$$y + y \ln(x) = 2 \ln(x)$$

$$y + y \ln(x) = 2 \ln(x)$$

$$m \cdot y = 2 \ln(x) - y \ln(x)$$

$$m \cdot \ln(x) (2 - y) = y$$

$$m \cdot \ln(x) = \frac{y}{2 - y}$$

$$\Rightarrow y = 2 \ln(x) - y \ln(x)$$

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