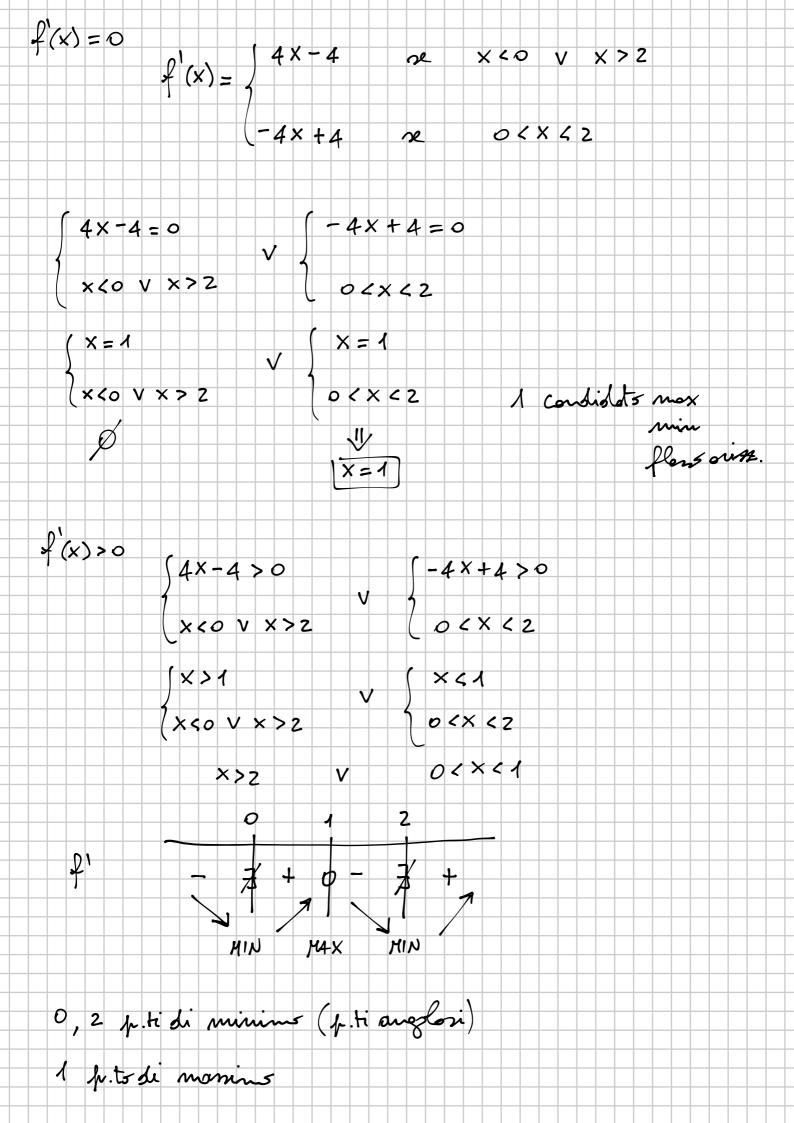
24/2/2021 Travere max, min, flem ours. 178 $y = |2x^2 - 4x|$ $[x = 0 \min (p. ang.); x = 2 \min (p. ang.); x = 1 \max]$ $f(x) = 2 \left| x(x-2) \right|$ D=R 2×2-4×20 2×(x-z)>0 x 60 V X 2 2 $f(x) = \begin{cases} 2x^2 - 4x & \text{se } x \le 0 \ \forall x \ge 2 \\ -2x + 4x & \text{se } 0 < x < 2 \end{cases}$ $f'(x) = \int 4x - 4 \qquad \text{se} \qquad x < 0 \quad \forall \quad x > 2$ $f'(x) = \int -4x + 4 \qquad \text{se} \qquad 0 < x < 2$ f'(0) = lim f'(x) = lim (4x-4) = -4 0 è purts angloss f+(0) = lim f(x) = lim (-4x+4) = 4 x > 0 + (x) = lim (-4x+4) = 4 $f'(z) = \lim_{x \to z^{-}} f'(x) = \lim_{x \to z^{-}} (-4x+4) = -4$ 2 é p.ts angloss $f_{+}(2) = \lim_{x \to 2^{+}} f(x) = \lim_{x \to 2^{+}} (4x - 4) = 4$



$$y = e^{\frac{x-1}{x+2}}$$
 Trove mox, min, flem

$$D = J-\infty, -2 [0]-2, +\infty$$

$$\begin{cases}
\frac{x-1}{x+2} & \frac{x-1}{x+2} \\
\frac{x+2}{x+2} & \frac{x-1}{x+2}
\end{cases} = e^{\frac{x-1}{x+2}} - \frac{x+2-x+1}{(x+2)^2} = e^{\frac{x-1}{x+2}}$$

$$= e^{\frac{x-1}{x+2}} \qquad \Rightarrow o \quad \forall x \in \mathbb{D}$$

$$(x+2)^{2} \qquad \qquad \forall y \in \mathbb{D}$$

$$iu \quad J-\infty, -2 \quad [e \quad iu \quad J-2,+\infty[$$

$$= e^{\frac{x-1}{x+2}} \cdot \frac{3}{(x+2)^2} \cdot \frac{3}{(x+2)^2} + e^{\frac{x-1}{x+2}} \cdot \frac{-6}{(x+2)^3} =$$

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

$$f''(x) = 0 = 7 - 1 - 2 \times = 0 = 7 \times = -\frac{1}{2}$$
 condidate fless

