PAG. 144 N 231

$$-\frac{2}{x-3}-x<0$$

$$\frac{-2-x(x-3)}{x-3} < 0$$

$$\frac{-2-x^2+3x}{x-3} < 0$$

$$\frac{2}{2} \times \frac{2}{3} \times \frac{2}$$

$$\sqrt{N} \times^2 - 3 \times + 2 > 0$$

$$\Delta = 9 - 8 = 1$$

$$X = \frac{3 + 1}{2} = \begin{pmatrix} 1 & 1 & 1 \\ 2 & 1 & 2 \\ 2 & 1 & 2 \end{pmatrix}$$

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

$$\frac{x+2}{x-3} - \frac{1}{x+2} < 0$$

$$\frac{(x+2)^{2}-(x-3)}{(x-3)(x+2)} < 0$$

$$\frac{x^{2}+4x+4-x+3}{(x-3)(x+2)} < 0$$

$$\frac{(x-3)(x+5)}{x^{2}+3x+7}<0$$

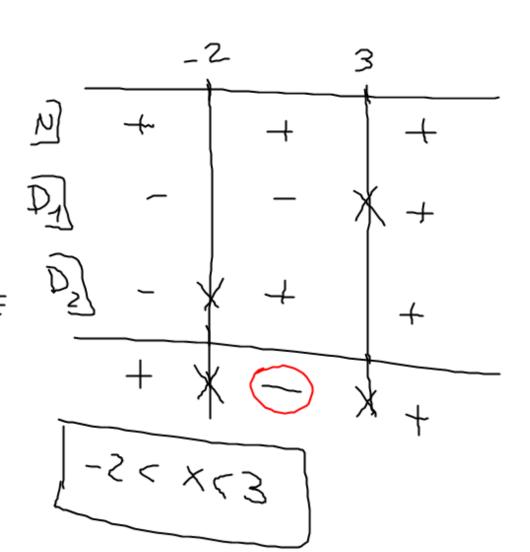
$$\frac{\sqrt{2} + 3x + 7}{(x-3)(x+2)} < 0$$

$$\frac{D_1}{D_2}$$

$$\sqrt[N]{x^2+3x+7>0}$$

 $\Delta = 9-28<0$

PER DANI XEIR IL NUMERATORE E POSITIVO



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

$$\frac{3}{(x-1)^{2}} + \frac{3+x}{x-1} > 0$$

$$\frac{3+(3+x)(x-1)}{(x-1)^{2}} > 0$$

$$\frac{3+3x-3+x^{2}-x}{(x-1)^{2}} > 0$$

$$\frac{x^{2}+2x}{(x-1)^{2}} > 0$$

$$\frac{2}{\sqrt{X-1}} > 0$$

$$\sqrt{X-1}$$

$$\sqrt{2} + 2 \times > 0$$

 $(x+2) = 0 \quad \triangle > 0$
 $(x+2) = 0 \quad \triangle > 0$



X<-5 V X>0

$$\frac{D}{(x-1)^{2}} > 0$$

$$\frac{1}{(x-1)^{2}} > 0$$

X<-2 V O(X<1 V X71

appure

(r +x / 0 <x) > 5->×

DI NECEDIFIO