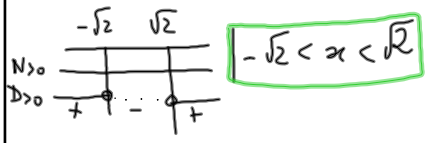
$\frac{x^2+1}{2x^2-4} < 0$

$N>0 \quad x^2+1>0,\ x^2>-1 \quad \forall x \in \mathbb{R}$

$D>0 \quad 2x^2-4>0,\ 2x^2>4,\ x^2>2$

$x<-\sqrt{2} \vee x>\sqrt{2}$



$-\sqrt{2} < x < \sqrt{2}$

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$\begin{cases} x^2+3x-4>0 \\ 2x+1<0 \end{cases}$

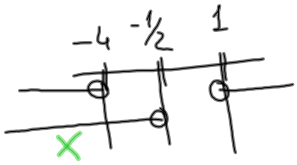
$x^2+3x-4>0$

$\Delta = 9+16 = 25$

$x = \frac{-3\pm5}{2} = \nearrow 1,\ \searrow -4$

$x<-4 \vee x>1$

$x<-\frac{1}{2}$



$x<-4$

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$r: 3x+y-4=0 \quad m_r = -\frac{a}{b} = -3$

$s: 2x+y-1=0 \quad m_s = -2$

$\begin{cases} y=-3x+4 \\ y=-2x+1 \end{cases} \Rightarrow -3x+4=-2x+1$

$\Rightarrow -x=-3 \Rightarrow x=3$

$\begin{cases} x=3 \\ y=-5 \end{cases} \quad P(3,-5)$

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$r: 2x-3y+1=0$

$\begin{cases} 2x-3y+1=0 \\ y=0 \end{cases} \qquad \begin{cases} 2x-3y+1=0 \\ x=0 \end{cases}$

$\begin{cases} y=0 \\ x=-\frac{1}{2} \end{cases} \qquad \begin{cases} x=0 \\ y=\frac{1}{3} \end{cases}$

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