Equation: can il modulo

$$|2| = 2 \qquad |-2| = 2 \qquad \text{non so there can to del}$$

$$|f(x)| = g(x) \qquad D = D(f) \cap D(g)$$

bisogni assumere che $g(x) \ge 0$ pertira altrimeti:

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*
$$| x+i | = 1$$
 $x+i = 1$
 $x=0$
 $x=-2$
 $| x=0|$
 $| x=-2$
 $|$

3)
$$X > Z$$

$$(2x-h) - (x-1) = 3$$

$$2x-h - x + 1 = 3$$

$$X = 6$$

$$5_3 = \begin{cases} 6 \\ 3 \end{cases}$$

$$S = \begin{cases} 6 \\ 3 \end{cases}$$

$$-2(x-2) - (x+2) = Sx$$

$$-2x+4-X-2=SX$$

$$-8x + 2 = 0 \qquad x = \frac{1}{6}$$

$$X = \frac{1}{5} \qquad S_1 = \{ \phi \}$$

$$b)$$
 -2 4×42

$$-6x+6=0 \qquad X=1$$

$$\times = 1$$

53-809

$$-2\times-2=0$$
 $\times=-1$

$$S =$$
 1 3

Diseguszioni con il modulo | F(x) | > s(x) D = P(f) n P(s) $|X| >_2 = > X < -2 V \times >_2$ 1x1 62 => -2 5x62 1X1 <-2 \$ 1X1>-2 YXER $\left|\frac{3x+2}{2x-1}\right| \leq 1$ D: 2x-170 x71/2 $-1 \leq \frac{3x+2}{2x-1} \leq 1$ $\begin{cases} \frac{3x+2}{2x-1} \leq 1 \\ \frac{3x+2}{2x-1} \geqslant -1 \end{cases}$ $\frac{3x+2}{2x-1} \leq 1$ $\frac{3x+2}{-1}$ -1 < 0 2×-1 $\frac{3x+2-2x+1}{2x-1} \le 0$ $\frac{x+3}{2x-1} \le 0$ $51 = \left(\frac{1}{2} - 3 \le \times \left(\frac{1}{2} \right) = \left[\frac{1}{2} - 3 \right] = \left[\frac{1}{2} - 3 \right]$

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

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

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

$$\frac{5x+1}{2x-1} > 0$$

$$\frac{5x+2+2x-1}{2x} > 0$$

$$\frac{1}{2x-1} > 0$$

-5 0

$$\begin{pmatrix} x^{2} - 2x - 1 & 0 \\ x^{2} - 2x + 1 & 0 \end{pmatrix} \Rightarrow (x - 1)^{2} > 0$$

$$\Rightarrow) x^{2} - 2x - 1 & 0 \Rightarrow 2 + h = 8 = 23$$

$$x_{1/2} = \frac{2 \pm \sqrt{8}}{2} = \frac{2 \pm 2\sqrt{2}}{2} = 1 \pm \sqrt{2} \begin{cases} x_{1} = 1 + \sqrt{2} \\ x_{2} = 1 + \sqrt{2} \end{cases}$$

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

$$\Rightarrow (+1 - \sqrt{2}) < x < 1 + \sqrt{2} - \begin{cases} 1 \\ 1 - \sqrt{2} < x < 1 + \sqrt{2} \end{cases}$$

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$$\Rightarrow (+1 - \sqrt{2}) < x < 1 + \sqrt{2} + \sqrt{2}$$

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