EQUAZIONI NUMERICHE FRATTE

$$\frac{x}{4x+8} - \frac{1}{4} = \frac{3x+1}{4x^2-x-6}$$

C.E. $x \neq -2$, $x \neq 3$

$$\frac{x}{4(x+2)} - \frac{1}{4} = \frac{3x+1}{(x-3)(x+2)}$$

$$\frac{x(x-3)-(x+2)(x-3)}{4(x+2)(x-3)} = \frac{(3x+1)\,4}{4(x+2)(x-3)}$$

$$x^2 - 3x - x^2 + x + 6 = 12x + 4$$

$$-14x = -2$$

$$x = +\frac{1}{7}$$

EQUAZIONI LETTERALI

$$a^2x - a = x + 1$$
$$a^2x - x = a + 1$$
$$x(a^2-1) = a + 1$$
$$(a-1)(a+1)x = a + 1$$

DISEQUAZIONI FRATTE

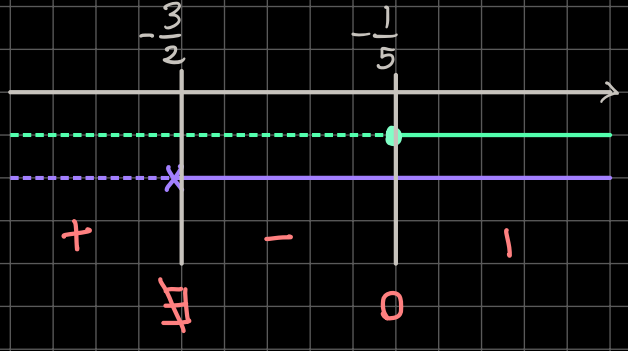
$$\frac{5x+1}{2x+3} \geq 0$$

C.E. $2x+3 \neq 0$, $x \neq -\frac{3}{2}$

$N \geq 0 \longrightarrow 5x+1 \geq 0$, $x \geq -\frac{1}{5}$

$D > 0 \longrightarrow 2x+3 > 0$, $x > -\frac{3}{2}$

CAPISALDI



Soluzione: $x < -\frac{3}{2} \vee x \geq -\frac{1}{5}$