

## Disequazioni fratte: soluzioni

Risolvi la disequazione:  $\frac{x}{5-6x} \geq 0$

$$\begin{cases} x \geq 0 \\ 5-6x > 0 \end{cases}$$

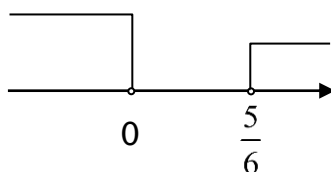
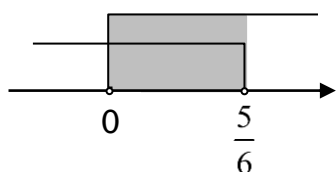
$$\begin{cases} x \leq 0 \\ 5-6x < 0 \end{cases}$$

$$\begin{cases} x \geq 0 \\ 5 > 6x \end{cases}$$

$$\begin{cases} x \leq 0 \\ 5 < 6x \end{cases}$$

$$\begin{cases} x \geq 0 \\ \frac{5}{6} > x \end{cases}$$

$$\begin{cases} x \leq 0 \\ \frac{5}{6} < x \end{cases}$$



$$S_1 = \left[ 0; \frac{5}{6} \right[$$

$$S_2 = \emptyset$$

$$S = S_1 \cup S_2 = \left[ 0; \frac{5}{6} \right[$$

Risolvi la disequazione  $\frac{10}{1-x} > 0$

$$1-x > 0$$

$$1 > x$$

$$S = ]-\infty; 1[$$

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Risolvi la disequazione:  $\frac{2}{3x+1} < -1$

Prima la portiamo nella forma  $\frac{a}{b} < 0$ :

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

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

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

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

$$\begin{cases} 3x+3 > 0 \\ 3x+1 < 0 \end{cases}$$

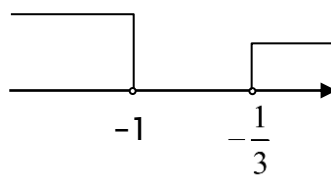
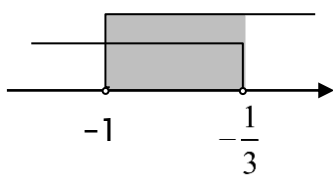
$$\begin{cases} 3x+3 < 0 \\ 3x+1 > 0 \end{cases}$$

$$\begin{cases} 3x > -3 \\ 3x < -1 \end{cases}$$

$$\begin{cases} 3x < -3 \\ 3x > -1 \end{cases}$$

$$\begin{cases} x > -1 \\ x < -\frac{1}{3} \end{cases}$$

$$\begin{cases} x < -1 \\ x > -\frac{1}{3} \end{cases}$$



$$S_1 = \left] -1; -\frac{1}{3} \right[$$

$$S_2 = \emptyset$$

$$S = S_1 \cup S_2 = \left] -1; -\frac{1}{3} \right[$$

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