

## DISEQUAZIONI

$$1) \frac{x}{x+1} - 2 < \frac{x-1}{x+1} - 3 \quad (1. -2 < x < -1)$$

$$2) \frac{2}{x+4} - \frac{3}{2x+8} - \frac{1}{3} > \frac{1}{6} \quad (1. -4 < x < -3)$$

$$3) 2 - \frac{x-1}{2} + \frac{x+3}{2} > \frac{x+1}{x-2} \quad (1. x < 2, x > 3)$$

$$4) (x-1) \left( 1 - \frac{3}{x-1} \right) < \frac{6-x^2}{1-x} \quad (1. x < 1, x > 2)$$

## SISTEMI

$$1) \begin{cases} \frac{x+1}{x} - 2 > \frac{x-1}{x} \\ \frac{3}{2} + \frac{1}{x-3} - \frac{1}{2} < 0 \end{cases} \quad 2) \begin{cases} \frac{2x+3}{x-1} - \frac{3}{1-x} + 2 > 0 \\ 3 - \frac{1}{x-2} < \frac{1-3x}{2-x} \end{cases}$$

$$3) \begin{cases} \frac{x}{x+1} - 2 < \frac{x-1}{x+1} - 3 \\ \frac{1}{1-2x} + \frac{x+2}{2x-1} > -1 \end{cases}$$