

1.- Opera simplifica:

$$\text{a) } \frac{1}{x+2} + \frac{3}{x-1} - \frac{x+1}{x^2+x-2}$$

$$\text{b) } \frac{x}{x^2-x-2} - \frac{3}{x+1} - \frac{x-1}{x^2-3x+2}$$

$$\text{c) } \frac{x}{x^2-1} - \frac{3}{x+1} - \frac{x+2}{x^2+x-2}$$

$$\text{d) } \frac{2y}{y-1} - \frac{y-1}{3y} - \frac{3-y}{y} =$$

$$\text{e) } \frac{y}{y-2} - \frac{y}{y^2-3y+2} - \frac{y}{y-1} =$$

$$\text{f) } \frac{x-1}{x^2+2x+1} - \frac{x}{x+1} - \frac{1}{x-1} =$$

$$\text{g) } \frac{x}{x^2-x} + \frac{1}{x-1} + \frac{x-1}{x^2-1} =$$

$$\text{h) } \frac{x^2+x}{x^2-1} + \frac{1}{x+1} - \frac{1}{x-1} =$$

$$\text{i) } \frac{x}{x^2-1} + \frac{x}{x+1} - \frac{x}{x-1} =$$

$$\text{j) } \frac{1}{x+1} - \frac{x^2+1}{x^2-1} - \frac{1}{x-1} + \frac{x}{x+1} =$$

$$\text{k) } \frac{x-1}{x^2+x} - \frac{3(x-1)}{x} + \frac{2x}{x+1} =$$