

$$\boxed{\text{Ex 4}} \text{ (d)} \quad \frac{3}{x^2+x-2} - \frac{(x-2)}{(x-1)} \quad \text{LCD ?}$$

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

$$\begin{array}{r} x^2+x-2 \\ (x+2)(x-1) \end{array} \quad \begin{array}{r} -2 \mid 1 \\ 2(-1) \mid 2-1=1 \end{array}$$

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

LCD:
 $(x+2)(x-1)$

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

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

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

$$= \boxed{\frac{-x^2 + 7}{(x+2)(x-1)}}$$