

$$\textcircled{3} \quad \frac{\frac{x-3}{x+1} - \frac{x}{x-2}}{5 + \frac{2}{x-2}}$$

$$\frac{\cancel{(x+1)}(x-2)\left(\frac{x-3}{\cancel{x+1}}\right) - \cancel{(x+1)}(x-2)\left(\frac{x}{\cancel{x-2}}\right)}{5\cancel{(x+1)}(x-2) + \cancel{(x+1)}(x-2)\left(\frac{2}{\cancel{x-2}}\right)}$$

$$\frac{(x-2)(x-3) - (x+1)x}{5(x+1)(x-2) + 2(x+1)}$$

$$\frac{x^2 - 5x + 6 - (x^2 + x)}{5(x^2 - x - 2) + 2x + 2}$$

$$\frac{x^2 - 5x + 6 - x^2 - x}{5x^2 - 5x - 10 + 2x + 2}$$

$$\frac{-6x + 6}{5x^2 - 3x - 8} \quad \text{(GCF)} \quad \text{(KE-1)}$$

$$\frac{-6(x-1)}{(5x-8)(x+1)}$$

$$\textcircled{4} \quad \frac{\frac{5}{x} - 1}{\frac{25}{x} - x}$$

$$\frac{\cancel{x}\left(\frac{5}{\cancel{x}}\right) + x(-1)}{\cancel{x}\left(\frac{25}{\cancel{x}}\right) + x(-x)}$$

$$\frac{5-x}{25-x^2}$$

$$\frac{-x+5}{-x^2+25} \quad \text{(GCF)}$$

$$\frac{-1(x-5)}{-1(x^2-25)} \quad \text{(GCF)}$$

$$\frac{-1(x-5)}{-1(x^2-25)} \quad \text{(D.T.S.)}$$

$$\frac{-1(x-5)}{-1(x+5)(x-5)}$$

$$\frac{\cancel{-1}(x-5)}{\cancel{-1}(x+5)\cancel{(x-5)}}$$

$$\frac{1}{x+5}$$