Algebraic Fractions

1.   Express as a single fraction in its simplest form $\dfrac{1}{2x} - \dfrac{1}{3x}, \quad x \neq 0$ 2 KU

2.   Express as a single fraction in its simplest form

$$\frac{3}{x} + \frac{2-x}{x^2}, \quad x \neq 0$$ 3 KU

3.   Express as a single fraction in its simplest form

$$\frac{5}{x} - \frac{3}{(x-2)}, \quad x \neq 0 \;\; \text{or} \;\; x \neq 2$$ 3 KU

Fraction Equations

1.   Solve the equation $\dfrac{2x+1}{3} - \dfrac{x}{4} = 2$ 3 KU

2.   Solve the equation $\dfrac{x+4}{2} - \dfrac{2x+1}{3} = 1$, where x is a real number.   3 KU

3.   Solve **algebraically** the equation $3x - \dfrac{(5x+2)}{4} = 3$ 3 KU

4.   Solve the equation $\dfrac{x-3}{2} + \dfrac{2x-1}{3} = 4$ 4 KU

5.   Solve this equation for x: $\dfrac{x-2}{3} - \dfrac{x}{2} = \dfrac{1}{4}$ 4 KU

6.   Solve **algebraically**, the equation $\dfrac{x}{2} - \dfrac{(x+1)}{3} = 4$ 3 KU

7.   Solve **algebraically**, the equation $\dfrac{m}{3} = \dfrac{(1-m)}{5}$ 3 KU