Maths.scot

National 5 Maths
Adding or Subtracting
Algebraic Fractions

SQA past paper and specimen paper questions and answers by topic

BE GREEN
KEEP IT ON
THE SCREEN

Express $\dfrac{7}{x+5} - \dfrac{3}{x}$ $x \neq -5,\ x \neq 0$ as a single fraction in its simplest form.   **3**

Answer:

$$\dfrac{4x-15}{x(x+5)}$$

Express

$$\frac{3}{x-2} + \frac{5}{x+1}, \qquad x \neq 2, x \neq -1$$

as a single fraction in its simplest form. **3**

Answer:

$$\frac{8x-7}{(x-2)(x+1)}$$

Express

$$\frac{4}{x+2} - \frac{3}{x-4},\qquad x \neq -2,\ x \neq 4$$

as a single fraction in its simplest form.   **3**

Answer:

$$\frac{x-22}{(x+2)(x-4)}$$

Express $\dfrac{3}{a^2} - \dfrac{2}{a}$, $a \neq 0$, as a single fraction in its simplest form. **2**

Answer:

$$\frac{3 - 2a}{a^2}$$

Express

$$\frac{4}{x-2} - \frac{3}{x+5}, \quad x \neq 2, x \neq -5$$

as a single fraction in its simplest form. **3**

Answer:

$$\frac{x+26}{(x-2)(x+5)}$$

Express

$$\frac{7}{x-3} - \frac{2}{x}, \quad x \neq 3, x \neq 0$$

as a single fraction in its simplest form.   **3**

Answer:

$$\frac{5x+6}{x(x-3)}$$