

Now
Revise

Routine &
Neutral

Algebraic Fractions
Expressions and Formulae 1.3

(a) Factorise **fully**

$$2x^2 - 18.$$

1

(b) Simplify

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

Express $\frac{5p^2}{8} \div \frac{p}{2}$ as a fraction in its simplest form.

2

Express

$$\frac{2}{a} - \frac{3}{(a+4)}, \quad a \neq 0, a \neq -4,$$

3

as a single fraction in its simplest form.

Simplify $\frac{ab^6}{a^3b^2}$.

4

Simplify

$$\frac{3x-15}{(x-5)^2}.$$

5

Express

$$\frac{3}{x} - \frac{4}{x+1}, \quad x \neq 0, x \neq -1$$

6

as a single fraction in its simplest form.

7

Express

$$\frac{2}{x-1} + \frac{4}{x+2} \quad x \neq 1, x \neq -2$$

as a single fraction in its simplest form.

8

Express

$$\frac{s^2}{t} \times \frac{3t}{2s}$$

as a fraction in its simplest form.

9

Express as a single fraction

$$\frac{a}{b} + \frac{b}{a}, \quad a \neq 0, \quad b \neq 0.$$

10

Express as a single fraction in its simplest form

$$\frac{1}{p} + \frac{2}{(p+5)}.$$