

ALGEBRAIC FRACTIONS (EQUATIONS)

[ESTIMATED TIME: 45 minutes]

GCSE

(+ IGCSE) EXAM QUESTION PRACTICE

1.

[4 marks]

Solve $\frac{6x-1}{4} - \frac{5-2x}{2} = 1$

Show clear algebraic working.

$x = \dots\dots\dots$

2.**[4 marks]**

Solve $\frac{2x-1}{4} + \frac{x-1}{5} = 2$

$x = \dots\dots\dots$

3.**[4 marks]**

Solve $\frac{x-1}{2} + \frac{2x+3}{4} = 1$

$x = \dots\dots\dots$

4.

[4 marks]

Solve $\frac{2}{5x-2} = \frac{3}{6x+1}$

Show clear algebraic working.

5.

[4 marks]

Solve $\frac{5x-7}{x-1} = x+1$

.....

(a) Factorise $4x^2 - 1$

.....
(2)

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

Show clear algebraic working.

.....
(4)

Solve $\frac{5}{(x+2)} + \frac{9}{(x-2)} = 2$

Show clear algebraic working.

.....

Solve the equation $\frac{6}{x-2} - \frac{6}{x+1} = 1$

Show clear algebraic working.

.....

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

Show clear algebraic working.

.....

Solve the equation $\frac{3}{(x+2)} + \frac{4}{(x-3)} = 2$

Show clear algebraic working.

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