

Algebraic Fractions

Question Paper 1

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Equations, Formulae and Identities
Sub Topic	Algebraic Fractions(Algebraic manipulation)
Booklet	Question Paper 1

Time Allowed: 51 minutes

Score: /42

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	70%	60%	55%	50%	<50%

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

1 Simplify fully $\frac{4}{x} + \frac{3}{2-x}$

.....
(Total for Question 1 is 3 marks)

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

Show clear algebraic working.

.....
(Total for Question 2 is 5 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

3 Simplify fully $\frac{4x^2 - 25}{6x^2 + 13x - 5}$

.....

(Total for Question 3 is 3 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

4 Make y the subject of $\frac{y}{x} + \frac{2y}{x+4} = 3$

Show your working clearly and give your answer as simply as possible.

$$y = \dots\dots\dots$$

(Total for Question 4 is 5 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

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

Show clear algebraic working.

.....
(Total for Question 5 is 5 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

6 Simplify fully $\frac{x^2 - 16}{x^2 - 6x + 8}$

.....

(Total for Question 6 is 3 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

7 Express $\frac{4}{x-1} - \frac{3}{x+1}$ as a single fraction.

Give your answer as simply as possible.

.....
(Total for Question 7 is 3 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

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

Show clear algebraic working.

.....
(Total for Question 8 is 5 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

9 Simplify fully $\frac{5}{2x - 6} - \frac{x + 2}{x^2 - 4x + 3}$

.....

(Total for Question 9 is 5 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

10 (a) Simplify $(16x^4y^2)^{\frac{1}{2}}$

.....
(2)

(b) Simplify fully $\frac{2x^2 - 8}{4x^2 - 8x}$

.....
(3)

(Total for Question 10 is 5 marks)