

Algebraic Fractions

Difficulty: Easy

Question Paper 3

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Algebra and graphs
Sub-Topic	Algebraic Fractions
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 3

Time allowed: 37 minutes

Score: /29

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

(a) Write $\frac{1}{y} - \frac{2}{x}$ as a single fraction in its lowest terms. [2]

(b) Write $\frac{x^2 + x}{3x + 3}$ in its lowest terms. [3]

Question 2

Write as a single fraction in its simplest form [2]

$$\frac{x}{3} + \frac{x-1}{2}$$

Question 3

Write as a single fraction in its simplest form

$$\frac{4}{2x+3} - \frac{2}{x-3} \quad [3]$$

Question 4

Simplify $\frac{x}{3} + \frac{5x}{9} - \frac{5x}{18}$. [2]

Question 5

Write as a fraction in its simplest form

$$\frac{x-3}{4} + \frac{4}{x-3} \quad [3]$$

Question 6

Write as a single fraction in its simplest form

$$\frac{5}{x} - \frac{4}{x+1} \quad [2]$$

Question 7

Simplify

$$\frac{x+2}{x} - \frac{x}{x+2}$$

Write your answer as a fraction in its simplest form.

[3]

Question 8

(a) Write $\frac{3}{x} - \frac{2}{x+1}$ as a single fraction in its simplest form.

[3]

(b) Solve the equation $\frac{3}{x} - \frac{2}{x+1} = 0$.

[1]

Question 9

Work out as a single fraction

$$\frac{2}{x-3} - \frac{1}{x+4} \quad [3]$$

Question 10

Write $2x - \frac{10x}{5-x}$ as a single fraction. [2]