

AQA, OCR, Edexcel

GCSE

GCSE Maths

Algebraic Fractions Questions

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Total Marks: /39

Algebraic Fractions

1. Simplify the following:

a. $\frac{4m + 1}{4} + \frac{1 - 3m}{3}$

b. $\frac{4m - 1}{4} + \frac{5 - 6m}{6}$

c. $\frac{3m + 1}{3} + \frac{4m - 1}{4}$

d. $\frac{3m + 2}{6} + \frac{2 - 4m}{8}$

(16 Marks)

2. Simplify the following:

a. $\frac{x^2 - 49}{x^2 + 9x + 14}$

b. $\frac{4x^2 - 25}{2x^2 + 7x + 5}$

c. $\frac{9x^2 - 36}{3x^2 - 3x - 6}$

(9 Marks)

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3. Write the following as single fractions:

a. $\frac{3}{x+2} + \frac{2}{x-4}$

b. $\frac{10}{2x-3} - \frac{3}{x+2}$

c. $\frac{20}{4x-10} - \frac{8}{3x-10}$

(9 marks)

4. Solve the following equation:

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

(5 Marks)