



Lite GCSE Maths

Algebraic Fractions 1

Name: _____

Class: _____

Author:

Date:

Time: 28

Marks: 25

Comments:

Q1. Solve $\frac{10}{2x-1} - \frac{3}{x} = 3$

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Answer

(Total 6 marks)

Q2. Simplify fully $\frac{18x^2 - 12x}{18x^2 - 8}$

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Answer

(Total 4 marks)

Q3. The rule for this sequence is that each term is the mean of the two previous terms.

$$\boxed{a} \quad x \quad y \quad \frac{x+y}{2} \quad \boxed{b}$$

(a) Find an expression for a in terms of x and y .

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Answer

(2)

(b) Find an expression for b in terms of x and y .
Simplify your answer.

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Answer

(2)
(Total 4 marks)

Q4. (a) (i) Factorise $x^2 - x - 2$

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Answer

(2)

(ii) Hence, solve $x^2 - x - 2 = 0$

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Answer

(1)

(b) Simplify $\frac{3x+2}{x^2-x-2} + \frac{1}{x+1}$

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Answer

(3)
(Total 6 marks)

Q5. Solve the equation $\frac{x}{x+1} - \frac{2}{x-1} = 1$

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Answer

(Total 5 marks)

