

2.3 Homework

GCSE Mathematics Algebraic Fractions

Marks Available: 14

Question 1

Express as a single fraction, $\frac{5(4x + 1)}{2} + \frac{3(2x + 3)}{7}$

[3 marks]

Question 2

Express as a single fraction; $\frac{2}{3} - \frac{2 - 3x}{6}$

[3 marks]

Question 3

GCSE Examination Question from May 2007, 4H, Q12 (Edexcel)

Simplify

(a) $\frac{a^3 \times a^4}{a^2}$

[2 marks]

(b) $(\sqrt{x})^6$

[1 mark]

(c) $\frac{3(x+1)^2}{6(x+1)}$

[2 marks]

Question 4

GCSE Examination Question from January 2017, 3H, Q17 (Edexcel)

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

[3 marks]

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Teachers may obtain detailed worked solutions to the exercises by email from mhh@shrewsbury.org.uk