

QT Algebraic Fractions 1



1. Simplify fully $\frac{x^2 + 2x}{x^2 + 5x + 6}$

(2 marks)

2. Simplify fully $\frac{x^2 - 16}{x^2 - 9x + 20}$

(2 marks)

3. Simplify fully $\frac{x^2 - 2x - 24}{x^2 - 4x - 12}$

(2 marks)

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4. Simplify fully $\frac{x+5}{x^2-25}$

(2 marks)

5. Write $\frac{2x^2+7x+6}{x^2+x-2}$ in the form $\frac{ax+b}{x+c}$

where a , b and c are integers

(3 marks)

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6. Write $\frac{2x^2 + 18x + 28}{x^2 - 49}$ in the form $\frac{ax + b}{x + c}$ where a , b and c are integers

(3 marks)

7. Simplify fully $\frac{2x + 4}{x - 2} \div \frac{2x^2 + 7x + 6}{x^2 - 2x}$

(3 marks)

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8. Simplify fully $\frac{2x - 12}{x - 4} \div \frac{2x^2 - 6x - 36}{x^2 - 9x + 20}$

(3 marks)