1 Express $\frac{5}{a^2} - \frac{2}{a}, \ a \neq 0$ As a single fraction in its simplest form. 2 Express $\frac{3}{x-2} + \frac{2}{x+1}, \ x \neq 2, x \neq -1$ As a single fraction in its simplest form. 3 Express $\frac{4}{x+1} - \frac{3}{x-1}, \ x \neq -1, x \neq 1$ As a single fraction in its simplest form. 4 Express $\frac{s^2}{t} \times \frac{3t}{2s}$	3
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4 Express	3
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$\frac{s^2}{t} \times \frac{3t}{2s}$	
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	2
As a single fraction in its simplest form.	
5 Express	3
$\frac{5p}{s} \div \frac{p}{2s^3}$	
5 25	
As a single fraction in its simplest form.	
6 Express	,
$\begin{bmatrix} 2 & 1 \end{bmatrix}$,
$\overline{n^2-9} \div \overline{n-3}$	
As a single fraction in its simplest form.	
16 marks	

	Algebraic Fractions - Answers	
1	Mark 1 common denominator $\frac{5}{a^2} - \frac{2a}{a^2}$ or $\frac{5a}{a^3} - \frac{2a^2}{a^3}$	
	Mark 2 answer given in simplest form $\frac{5-2a}{a^2}$	2
	One mark will be given for and answer not in simplest form $\frac{5a-2a^2}{a^3}$	
2	Mark 1 correct denominator $(x-2)(x+1)$	
	Mark 2 correct numerator $3(x+1) + 2(x-2)$	
	Mark 3 remove brackets and collect like terms in the numerator $\frac{5x-1}{(x-2)(x+1)}$	3
3	Mark 1 correct denominator $(x+1)(x-1)$	
	Mark 2 correct numerator $4(x-1) - 3(x+1)$	
	Mark 3 remove brackets and collect like terms in the numerator $\frac{x-7}{(x+1)(x-1)}$	3
4	Mark 1 know how to multiply $\frac{3s^2t}{2st}$	
	Mark 1 know how to multiply Mark 2 answer given in simplest form $ \frac{3s}{2} $	2
5	Mark 1 start division process $\frac{5p}{s} \times \frac{2s^3}{p}$	
	Mark 2 cancel one variable $\frac{5}{s} \times 2s^3$ or $5p \times \frac{2s^2}{p}$	
	Mark 3 express in the simplest form $10s^2$	3
6	Mark 1 start division process $\frac{2}{n^2-9} \times \frac{n-3}{1}$	
	Mark 2 Factorise $n^2 - 9$ $(n+3)(n-3)$	
	Mark 3 Multiply fractions and simplify $\frac{2}{(n+3)(n-3)} \times \frac{n-3}{1} = \frac{2}{n+3}$	3