

### Algebraic Fractions

$\frac{3}{5x} + \frac{2}{3x}$	$\frac{8}{11x} - \frac{3}{2x}$
$\frac{4}{x+1} + \frac{3}{x+2}$	$\frac{7}{x+3} - \frac{2}{x+4}$

$\frac{3}{x+2} \times \frac{2x+4}{6}$	$\frac{3x+5}{2} \times \frac{10}{9x+15}$
$\frac{5}{2x+3} \div \frac{10}{4x+6}$	$\frac{5x}{x-3} \div \frac{2x}{4x-12}$

By factorising numerators and denominators, cancel the following algebraic fractions

$\frac{5x+10}{x^2+5x+6}$	$\frac{x^2-9}{3x+9}$	$\frac{5x^2+9x-2}{x^2+2x}$
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### Miscellaneous Questions

$\frac{3x+2}{3} - \frac{1}{2} = 4$	$\frac{3}{x-2} + \frac{4}{x+1} = 2$
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Solve the following simultaneous equations

$\begin{aligned} y &= x + 3 \\ 3x + 2y &= 11 \end{aligned}$	$\begin{aligned} x^2 + y^2 &= 29 \\ y &= 2x + 1 \end{aligned}$
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