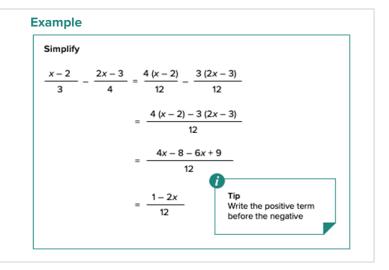


MATHEMATICS: ALGEBRA

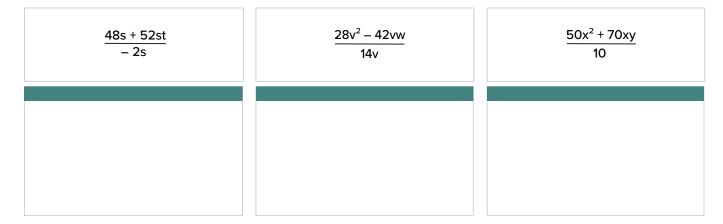
Equations with Algebraic Fractions

To add or subtract algebraic fractions:

- Find the lowest common denominator (LCD)
- Form equivalent fractions using the LCD
- Add or subtract the numerators
- Simplify the fraction by factorising and cancelling



Simplify the fractions.



Simplify the following.

$\frac{2x-5}{7}-\frac{x-4}{2}$	$\frac{3-4k}{9} + \frac{k-1}{6}$	$\frac{1-a}{9} - \frac{4a-2}{12}$

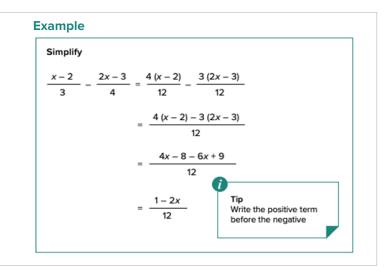


MATHEMATICS: ANSWER SHEET

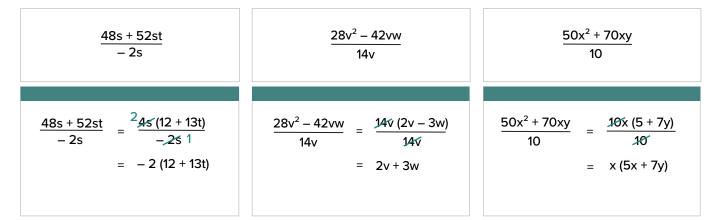
Equations with Algebraic Fractions

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Simplify the fractions.



Simplify the following.

$\frac{2x-5}{7} - \frac{x-4}{2}$	$\frac{3-4k}{9} + \frac{k-1}{6}$	$\frac{1-a}{9} - \frac{4a-2}{12}$
$\boxed{\frac{2x-5}{7} - \frac{x-4}{2} = \frac{2(2x-5)}{14} - \frac{7(x-4)}{14}}$	$\boxed{\frac{3-4k}{9} + \frac{k-1}{6}} = \frac{4(3-4k)}{36} + \frac{6(k-1)}{36}$	$\boxed{\frac{1-a}{9} - \frac{4a-2}{12}}_{9} = \frac{4(1-a)}{36} - \frac{3(4a-2)}{36}$
$= \frac{4x - 10 - 7 (x - 4)}{14}$	$= \frac{12 + 16k + 6k - 6}{36}$	$=\frac{4-4a+12a-6}{36}$
$= \frac{4x - 10 - 7x + 28}{14}$	$= \frac{6-10k}{36}$	$=\frac{8a-2}{36}$
$= \frac{18 - 3x}{14}$	= 2(3 – 5k) 18,36	= <u>2(4a - 1)</u> 18,36
	$= \frac{3-5k}{18}$	$= \frac{4a-1}{18}$