

# BASIC ALGEBRA

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The questions below are for use with [www.philsmathspage.co.uk](http://www.philsmathspage.co.uk):

- ➔ On the website, click on 'videos' and watch the related video clips.
- ➔ When the questions appear, press pause and try the questions.
- ➔ Press play and use the solutions on the clip to mark your answers.

## SUBSTITUTION

(a) If  $x = 5$ ,  $3x - 4 =$

(b) If  $a = -5$  and  $b = -2$ ,  
 $a^2 - 2b =$

(c) If  $y = \frac{1}{2}$ ,  $\frac{y}{3} =$

## SIMPLIFICATION

$$(-3a+b)+(2a+5b) =$$

$$7 - (2x-5) =$$

$$\frac{2x-3}{3} - \frac{3x+1}{5} =$$

## EQUATIONS

$$4x - 4 = 11 + x$$

$$\frac{3x-7}{4} = \frac{x}{2}$$

➔ *Don't forget to mark your work using the solutions on the video clips!*