

## B 2 Solving Equations With Variables On Both Sides

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Solving equations Solving an equation means finding the value or values for which the two expressions on each side of the equals sign are equal. One of the most common methods used to solve...

### Solving equations - Solving linear equations - AQA - GCSE ...

Solve the systems of equations below.  $b = a + 2$ .  $a + b = 4$ . Solution. Substitute the value of  $b$  into the second equation.  $a + (a + 2) = 4$ . Now solve for  $a$ .  $a + a + 2 = 4$ .  $2a + 2 = 4$ .  $2a = 4 - 2$ .  $a = 2/2 = 1$ . Substitute the obtained value of  $a$  in the first equation.  $b = a + 2$ .  $b = 1 + 2$ .  $b = 3$ . Hence, the solution for the two equation is:  $a = 1$  and  $b = 3$ . Example 2

### Solving System of Equations – Methods & Examples

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Step 2 Move the number term to the right side of the equation:  $x^2 + 4x = -1$ . Step 3 Complete the square on the left side of the equation and balance this by adding the same number to the right side of the equation.  $(b/2)^2 = (4/2)^2 = 2^2 = 4$ .  $x^2 + 4x + 4 = -1 + 4$ .  $(x + 2)^2 = 3$ .

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Next we multiply B by A-1: And the solution is the same:  $x = 5$ ,  $y = 3$  and  $z = ?2$ . It didn't look as neat as the previous solution, but it does show us that there is more than one way to set up and solve matrix equations. Just be careful about the rows and columns!

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Example 2 Solve  $3y + 2y = 20$ . We first combine like terms to get.  $5y = 20$ . Then, dividing each member by 5, we obtain. In the next example, we use the addition-subtraction property and the division property to solve an equation. Example 3 Solve  $4x + 7 = x - 2$ . Solution First, we add  $-x$  and  $-7$  to each member to get.  $4x + 7 - x - 7 = x - 2 - x - 1$

## Solve inequalities with Step-by-Step Math Problem Solver

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STEP 1: Deal with the whole numbers first. First, we want to eliminate the "2" on the right side of the equation.  $x + y ? 1 = z ? x + 2$ .  $x + y ? 1 ? 2 = z ? x + 2 ? 2$ .  $x + y ? 3 = z ? x$ . STEP 2: Now isolate z by moving the x to the other side.  $x + y ? 3 = z ? x$ .  $x + x + y ? 3 = z ? x + x$ .  $2x + y ? 3 = z$ .

## Solving Equations with Unknown Variables

2(b) Solve Wendy's equation using two different methods. Show and explain all your steps. Two different methods may include the same operations, but in a different order. Try to make the methods as different as possible.  $2w + 15 + w + 2 = 2w$  Method 1: Method 2: 3. Solve the following equation. Show and explain all your steps.  $6x - 123 + 4 = 18x$

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