


Algebra

- The same operation must be performed on both sides of the equation.
- Constants and variables may be cancelled out by performing the inverse operation.
 - Addition/Subtraction
 - Multiplication/Division
 - Exponent/Root
- Isolate variables by applying the reverse of the order of operations.



Brackets
Exponents
Division
Multiplication
Addition
Subtraction

Example

a) $E = mgh$

$$E = 1000$$

Solve for h

$$m = 20$$

$$g = 10$$

b) $3y + 5x = 6z$

$$y = 20$$

Solve for x

$$z = 5$$

c) $\frac{1}{2}mv^2 = \frac{1}{2}kx^2$

Solve for v