

# Robot Maths - Simultaneous equations (elimination)



Example

**Yes**

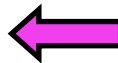


*Is either variable (e.g.  $x$  or  $y$ ) the same (ignoring  $+$  and  $-$ )?*

**No**



*Are the signs the same (are they both positive or both negative)?*



Make either variable the same by multiplying one or both equations by something.

**Yes**



Subtract the equations

**No**



Add the equations



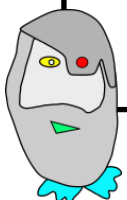
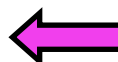
Now work out the first variable



Now you have worked out one variable, substitute it into either of the original equations.



Refer back to the context and make it clear what your results mean.



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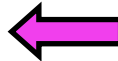


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