

Simultaneous Equations  
Substitution Method

1. Rearrange the equations to make  $x$  the subject

a.  $x - 2y = 7$

b.  $x + 5y = 15$

c.  $20 = x - 4y$

2. Rearrange the equations to make  $y$  the subject

a.  $3x + y = 7$

b.  $-2x + y = 30$

c.  $4 = x - 5y$

3. Rearrange the second equation to make  $y$  the subject. Then use the substitution method to solve.

$$\begin{aligned} 5x + 2y &= 9 \\ x + y &= 3 \end{aligned}$$

4. Rearrange the first equation to make  $x$  the subject. Then use the substitution method to solve.

$$\begin{aligned} x - y &= 4 \\ 2x + 3y &= 13 \end{aligned}$$