Simultaneous equation

Steps
1 Get the same number of **y terms** in both equations by multiplying.
2 Eliminate the **y terms** by adding or subtracting.
3 Solve to find x.
4 Substitute the value for x into one of the original equations.
5 Solve to find y.

Exercise: 20

1 $3x + 2y = 12$
$x + 3y = 11$

x=_____, y=_____

2 $4x + 2y = 14$
$2x + 5y = 11$

x=_____, y=_____

3 $2x + 3y = 13$
$5x + 2y = 27$

x=_____, y=_____

4 $4x + 3y = 17$
$7x - 4y = 2$

x=_____, y=_____

5 $11x - 3y = 8$
$9x + 4y = 13$

x=_____, y=_____

6 $5x + 3y = 12$
$6x - 4y = 22$

x=_____, y=_____

7 $5x + 4y = 11$
$2x + 3y = 3$

x=_____, y=_____

8 $4x + 5y = 26$
$5x + 4y = 28$

x=_____, y=_____

9 $3x - 2y = 12$
$x - 3y = 11$

x=_____, y=_____

10 $4x - 2y = 14$
$2x - 5y = 11$

x=_____, y=_____

11. Solve the simultaneous equations $2x + y = 10$ and $3x - y = 5$

x=_____, y=_____

12. Solve the simultaneous equations $3x + y = 17$ and $y = x + 1$

x=_____, y=_____

13. Solve the simultaneous equations $4x + y = 10$ and $4x - y = 6$

x=_____, y=_____