

2. (a) Draw the lines with equations  $y = 5 - 2x$  and  $y = 4 - x$ .  
 (b) Determine the coordinates of the point where the two lines cross.  
 (c) Determine the solution of the simultaneous equations,

$$2x + y = 5$$

$$x + y = 4$$

3. Use a graphical method to solve the simultaneous equations,

$$x - 2y = 5$$

$$x + y = 8$$

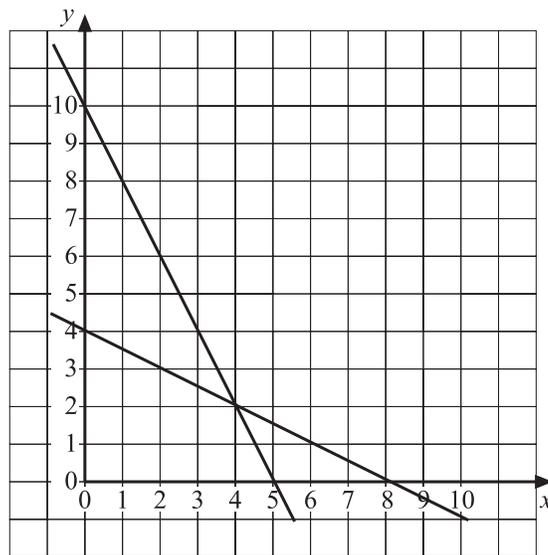
4. Use a graph to solve the simultaneous equations,

$$x + 2y = 10$$

$$2x + 3y = 18$$

5. Two numbers,  $x$  and  $y$ , are such that their sum is 24 and their difference is 6.  
 (a) If the numbers are  $x$  and  $y$ , write down a pair of simultaneous equations in  $x$  and  $y$ .  
 (b) Use a graph to solve the simultaneous equations and hence identify the two numbers.

6. Michelle obtains the solution  $x = 4$ ,  $y = 2$  to a pair of simultaneous equations by drawing the following graph:



What are the equations that she has solved?