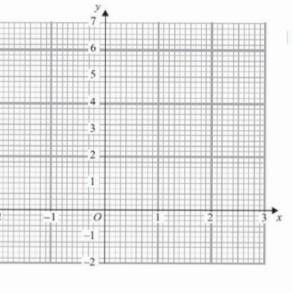
13. (a) Complete the table of values for 3x + 2y = 6

x	-2	-1	0	1	2	3
y		4.5	3			-1.5

(b) On the grid, draw the graph of 3x + 2y = 6

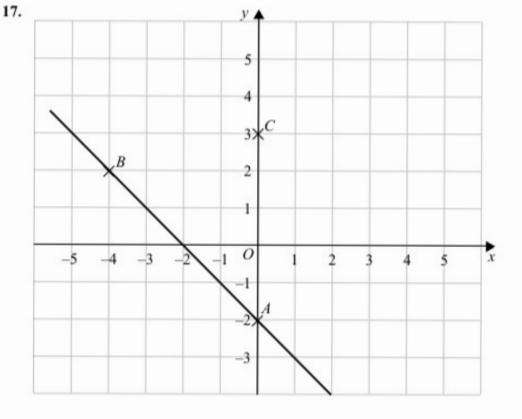


(c) Find the gradient of the graph of 3x + 2y = 6

(2)

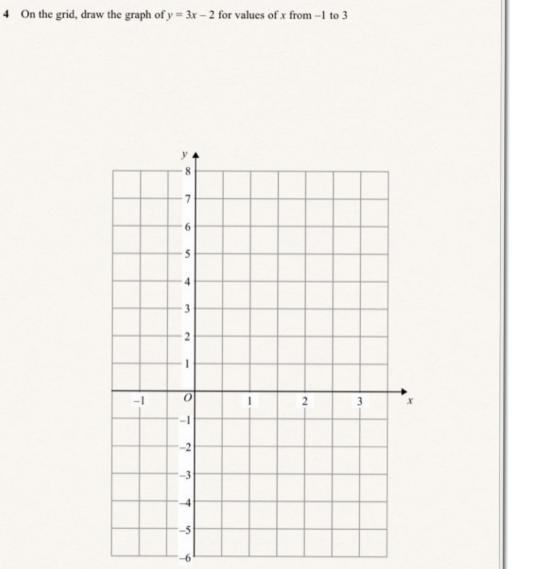
(2)

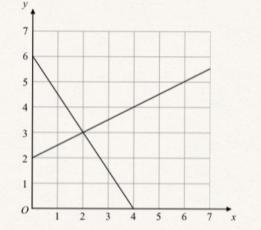
.........



In the diagram A is the point (0, -2), B is the point (-4, 2), C is the point (0, 3).

Find an equation of the line that passes through C and is parallel to AB.





and
$$2y + 3x = 12$$

(a) Use the diagram to solve the simultaneous equations

$$y = \frac{1}{2}x + 2$$

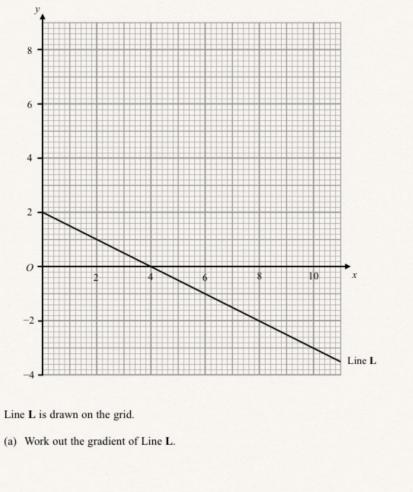
The diagram shows graphs of $y = \frac{1}{2}x + 2$

$$2y + 3x = 12$$

(b) Find an equation of the straight line which is parallel to the line
$$y = \frac{1}{2}x + 2$$
 and passes through the point (0, 4).

(1)

x = *y* =



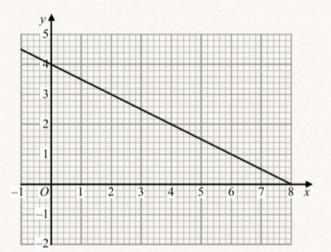
21.

(b) Find an equation for Line M.

Another line, Line M, is parallel to Line L and passes through the point (6, 2).

(2)

13.



(3)

The graph of the straight line x + 2y = 8 is shown on the grid.

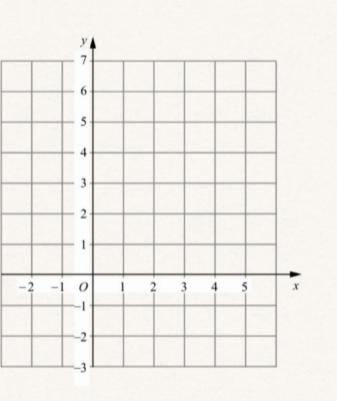
(a) On the grid, draw the graph of $y = \frac{x}{2} - 1$

(b) Use the graphs to find estimates for the solution of

$$x + 2y = 8$$
$$y = \frac{x}{2} - 1$$

$$y = \frac{\pi}{2}$$

8. On the grid draw the graph of x + y = 4 for values of x from -2 to 5



2 3y + 2x = 120 (a) Use the graphs to solve the simultaneous equations

y = x - 1

12. The graphs of the straight lines with equations 3y + 2x = 12 and y = x - 1 have been drawn

3y + 2x = 12y = x - 1

3y + 2x > 12 y < x - 1 x < 6

$$3y + 2x = 12$$

on the grid.

(b)

$$x$$
 and y are integers.

On the grid, mark with a cross (\times) each of the **four** points which satisfies **all** these 3 inequalities

3 inequalities. (3)

18. The region R satisfies the inequalities

$$x \ge 2$$
, $y \ge 1$, $x + y \le 6$

On the grid below, draw straight lines and use shading to show the region R.

