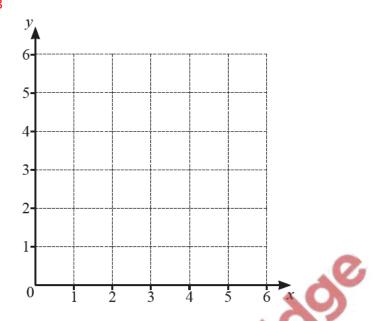
<u>Graphical representation of inequalities – 2021 O Level Math D</u>

1. Nov/2021/Paper_11/No.18



The region R is defined by these inequalities.

$$\begin{array}{l}
1 \leqslant x \leqslant 5 \\
0 \leqslant y \leqslant 4
\end{array}$$

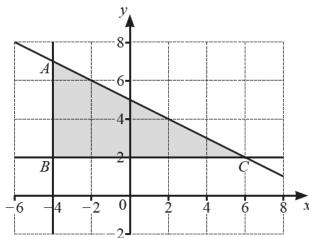
$$0 \le v \le 4$$

$$y \ge 3 - x$$

Find and label region R.

[4]

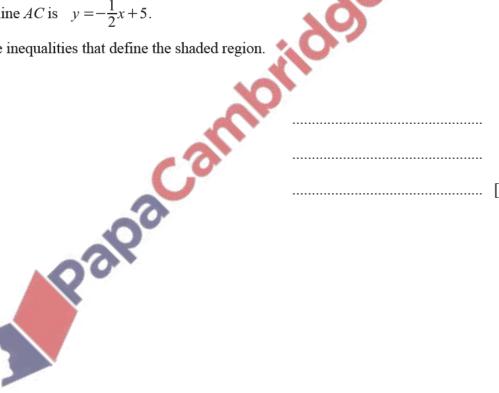
Nov/2021/Paper_12/No.18



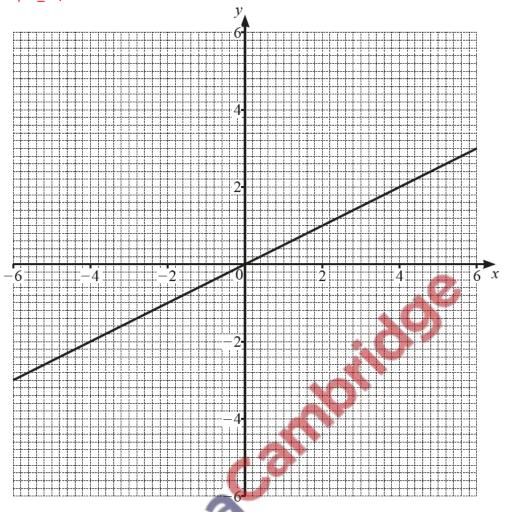
The diagram shows a shaded region ABC.

The equation of the line AC is $y = -\frac{1}{2}x + 5$.

Write down the three inequalities that define the shaded region.



3. June/2021/Paper_11/No.20



The line 2y = x is drawn on the grid.

(a) On the grid, draw the graph of

(i)
$$y = 2$$
, [1]

(ii)
$$y + x = 4$$
. [1]

(b) On the grid, shade and label the region R, defined by the following inequalities.

$$x+y \le 4$$
 $2y \ge x$ $y \le 2$ $x \ge 0$ [2]