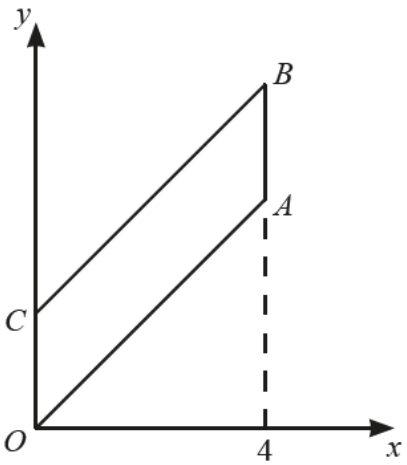
Graphical representation of inequalities – 2020 O Level Math D

1. Nov/2020/Paper_11/No.16



NOT TO SCALE

In the diagram, $OABC$ is a parallelogram.
The equation of the line CB is $y = x + 2$.

(a) The region **inside** the parallelogram is defined by four inequalities.
One of these is $y < x + 2$.

Write down the other three inequalities.

.....

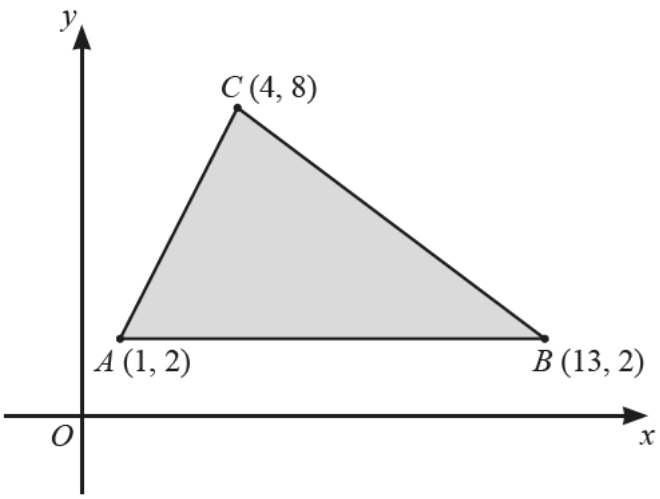
.....

..... [2]

(b) Calculate the area of parallelogram $OABC$.

..... units^2 [1]

2. Nov/2020/Paper_12/No.21



NOT TO SCALE

The diagram shows a triangle formed by joining the points A (1, 2), B (13, 2) and C (4, 8).
The equation of the line BC is $2x + 3y = 32$.

(a) The region **inside** triangle ABC is defined by three inequalities.
One of these is $2x + 3y < 32$.

Write down the other two inequalities.

.....

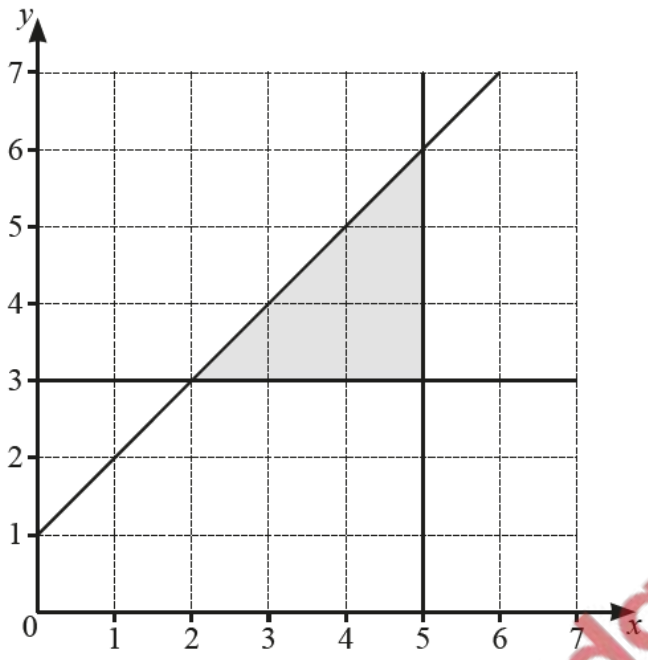
..... [2]

(b) The point $(k, 7)$, where k is an integer, lies **inside** triangle ABC.

Find the possible values of k.

$k =$ ..... [2]

3. June/2020/Paper_12/No.15



The shaded region is defined by three inequalities.

Find these three inequalities.

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..... [3]