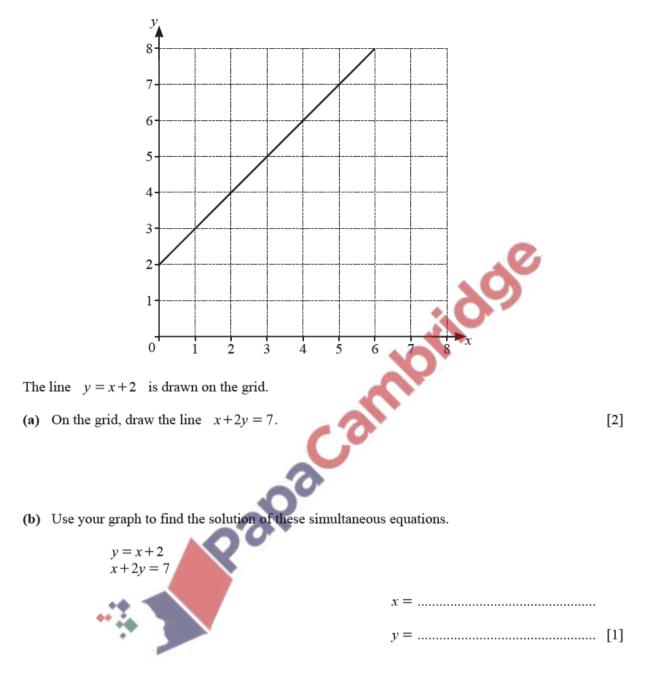
Graphical representation of inequalities – 2022 O Level Math D

1. June/2022/Paper_22/No.6



(c) The region R is defined by these three inequalities.

 $y \le x + 2 \qquad x + 2y \ge 7 \qquad x \le 5$

- (i) Shade and label region R.
- (ii) The point Z is in region R. The x-coordinate and the y-coordinate of point Z are both integers. Point Z does **not** lie on the boundary of region R.
 - (a) Find the number of possible positions of point Z.
 - (b) The y-coordinate of point Z is one more than its x-coordinate. Write down all the possible coordinates for point Z.

[2]