

2

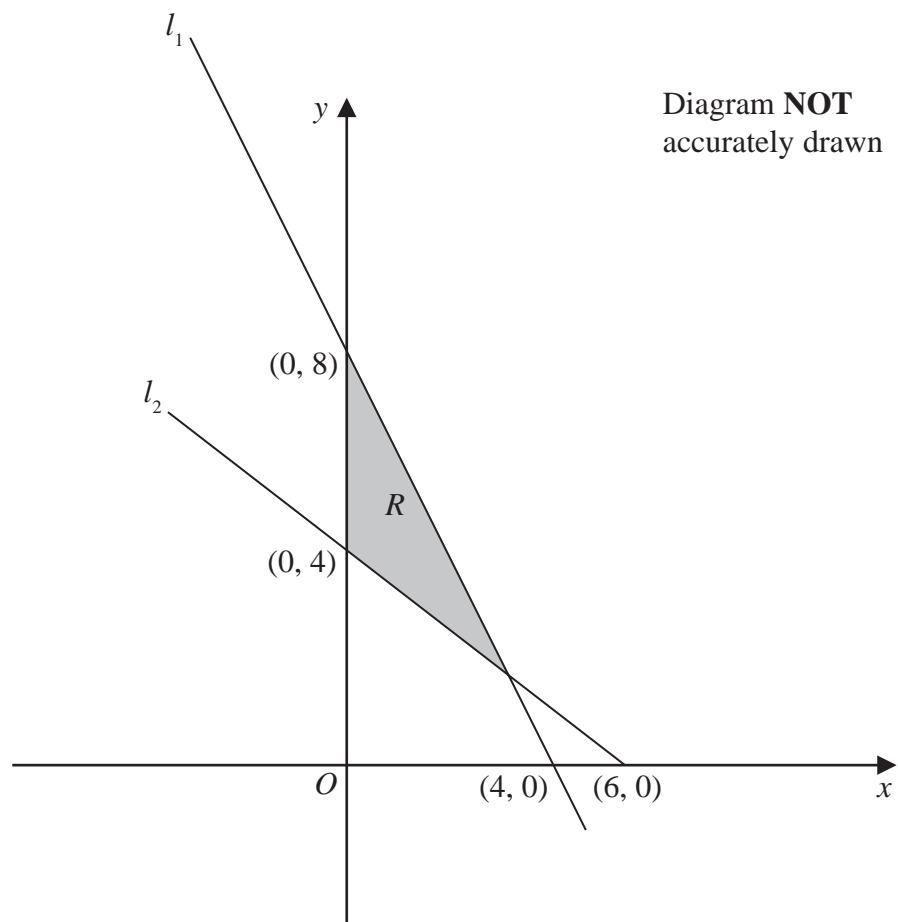


Figure 2

Figure 2 shows the shaded region R bounded by the line l_1 , the line l_2 and the y -axis.

The points with coordinates $(0, 8)$ and $(4, 0)$ lie on l_1

The points with coordinates $(0, 4)$ and $(6, 0)$ lie on l_2

(a) Find, in the form $ax + by = c$, where a , b and c integers, an equation of

(i) l_1

(ii) l_2

(3)

(b) Hence write down three inequalities that define the region R .

(3)

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Question 2 continued

DO NOT WRITE IN THIS AREA

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(Total for Question 2 is 6 marks)

P 6 0 4 7 6 A 0 5 4 0