

# Plotting Coordinates

## Section 1

- a) Write down the coordinates of the following points

*E, A, F*

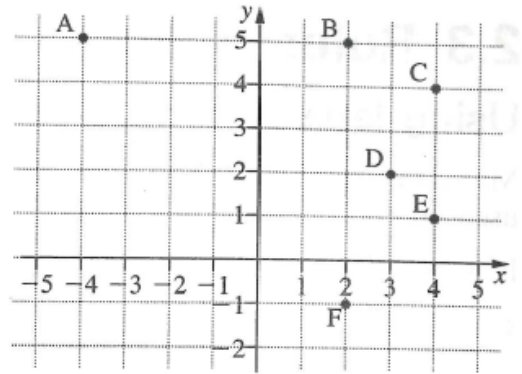
- b) Plot the following points

*G (5, -2)*

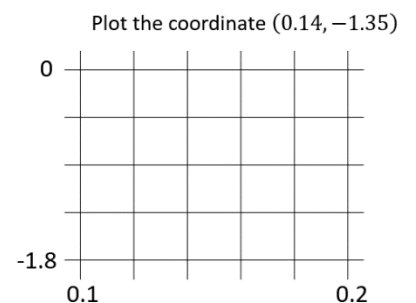
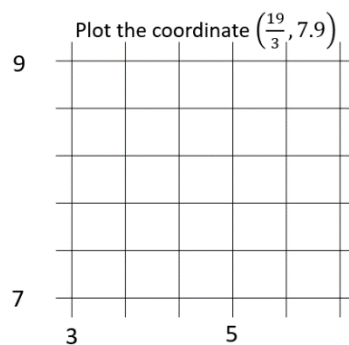
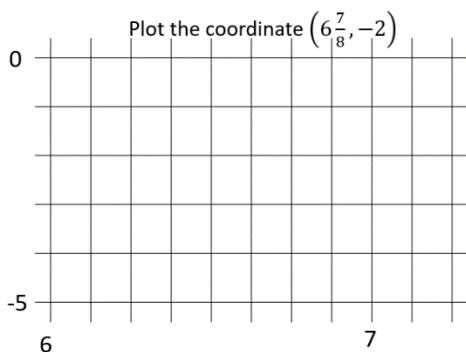
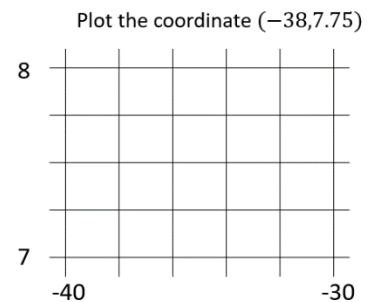
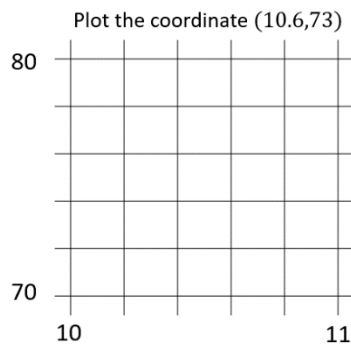
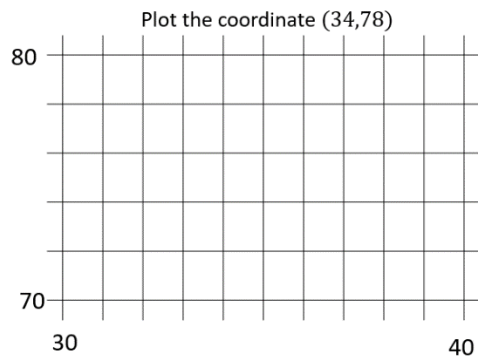
*H (-3, 3)*

*I (-4, -1.5)*

- b) A, B and F are three vertices of a square, write down the coordinates of the other vertex.
- c) B, C and D are three vertices of a different square, write down the coordinates of the other vertex
- d) D, E and F are three vertices of a rectangle, write down the coordinates of the other vertex

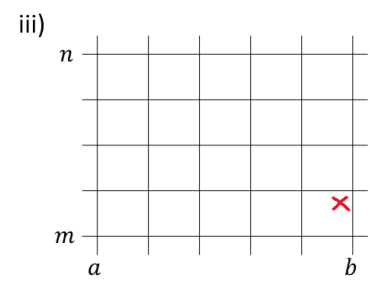
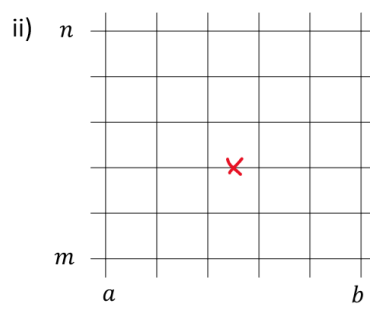
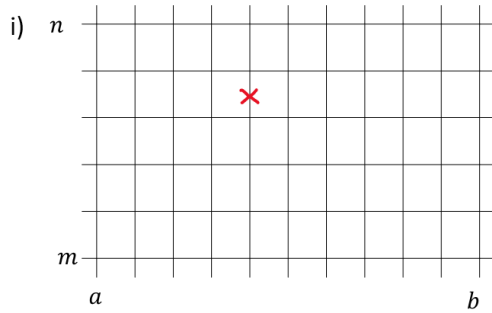


## Section 2



### Section 3

For each graph give a coordinate for the red cross



a)  $a = 10, b = 20, m = 40, n = 50$

b)  $a = 10, b = 50, m = 0, n = 120$

c)  $a = -30, b = 40, m = 4, n = 5$

d)  $a = -0.3, b = -0.1, m = \frac{1}{7}, n = \frac{1}{6}$

e)  $a = x - 100, b = x + 200, m = y, n = y + 1$

### Section 4

Find the midpoint of the following pair of points

(you can use the axes above to help you)

a)  $(2, 3)$  and  $(4, 1)$

b)  $(2, 7)$  and  $(-4, 7)$

c)  $(-7, 5)$  and  $(-3, -1)$

d)  $(0, -4)$  and  $(1, -1)$

5)  $A, B$  and  $C$  are three points, which when joined make a straight line  $ABC$ , with  $BC = 2 \times AB$ .

For each question, two of the points have been provided, find the missing one.

a)  $A (2, 5)$  and  $B (3, 1)$

b)  $A (-1, 2)$  and  $B (-3, 1)$

c)  $B (1, 4)$  and  $C (3, 8)$

d)  $A (-2, 5)$  and  $C (1, -4)$

\*e)  $A (1, 2)$  and  $C (0, 4)$

## Answers

2a) (3,2) b) (-1, 7) c) (-5, 2) d)  $(\frac{1}{2}, -2\frac{1}{2})$  3a) (-4 -1) b) (1, 3) c) (1, 0)

4a) to discuss b) we will check together c) yes

5a) (5, -7) b) (-7, -1) c) (0,2) d) (-1, 2) e)  $(\frac{2}{3}, 2\frac{2}{3})$