1 Match the points A, B, C, D, E, F, G and H with the given coordinates.

a $(-1, 3)$ **b** $(2, -3)$
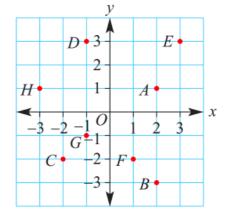
c $(2, 1)$ **d** $(-2, -2)$
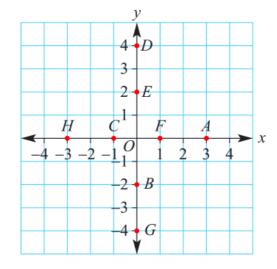
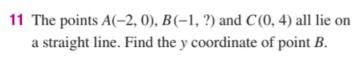**e** $(3, 3)$ **f** $(-3, 1)$

g $(1, -2)$ **h** $(-1, -1)$

5 For the number plane given, write down the coordinates of the points labelled $A, B, C, D, E, F,$ G and H.

10 Karen's bushwalk starts at a point $(2, 2)$ on a grid map. Each square on the map represents 1 kilometre. If Karen walks to the points $(2, -7)$, then $(-4, -7)$, then $(-4, 0)$ and then $(2, 0)$, how far has she walked in total?

11 The points $A(-2, 0), B(-1, ?)$ and $C(0, 4)$ all lie on a straight line. Find the y coordinate of point B.

12 The points $A(-4, 8), B(-1, ?)$ and $C(2, -2)$ all lie on a straight line. Find the y coordinate of point B.

14 A point (a, b) sits on the number plane in one of the four regions 1, 2, 3 or 4, as shown. These regions are called **quadrants**.

a Name the quadrant or quadrants that include the points where:

i $a > 0$ **ii** $a > 0$ and $b < 0$

iii $b < 0$ **iv** $a < 0$ and $b < 0$

b Shade the region that includes all points for which $b > a$.