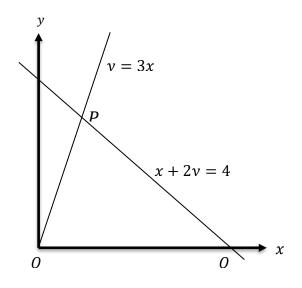
## <u>Example</u>

The diagram shows two lines with equations y = 3x and x + 2y = 4, which intersect at the point *P*.

a. Determine the coordinates of *P*.

b. The line x + 2y = 4 intersects the *x*-axis at the point *Q*. Determine the coordinate of *Q*.



## **Test Your Understanding**

The straight line  $L_1$  passes through the points (-1, 3) and (11, 12).

(a) Find an equation for  $L_1$  in the form ax + by + c = 0, where a, b and c are integers.

The line  $L_2$  has equation 3y + 4x - 30 = 0.

(b) Find the coordinates of the point of intersection of  $L_1$  and  $L_2$ .

(3)

(4)