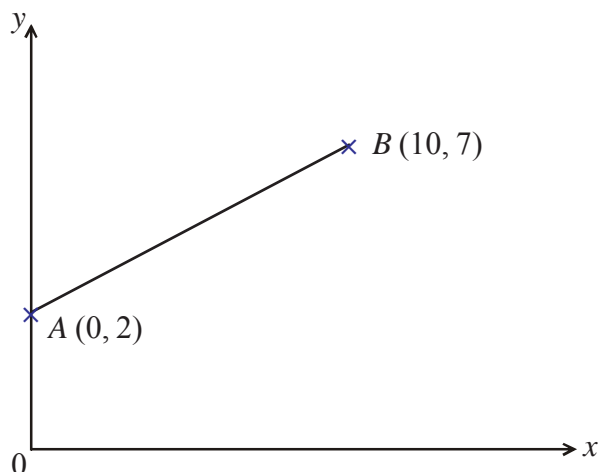




1)



$A$  is the point  $(0, 2)$   
 $B$  is the point  $(10, 7)$

- a) Write down the equation of the straight line which passes through points  $A$  and  $B$ .
- b) Find the equation of the line perpendicular to  $AB$  passing through  $B$ .



- 2) A straight line has equation  $y = 2x - 5$   
The point  $P$  lies on the straight line.  
The  $y$  coordinate of  $P$  is  $-6$

- a) Find the  $x$  coordinate of  $P$ .

A straight line  $L$  is parallel to  $y = 2x - 5$  and passes through the point  $(3, 2)$ .

- b) Find the equation of line  $L$ .
- c) Find the equation of the line that is perpendicular to line  $L$  and passes through point  $(3, 2)$ .



- 3) In the diagram  $A$  is the point  $(0, -2)$   
 $B$  is the point  $(-4, 2)$   
 $C$  is the point  $(0, 2)$

- a) Find the equation of the line that passes through  $C$  and is parallel to  $AB$ .
- b) Find the equation of the line that passes through  $C$  and is perpendicular to  $AB$ .

