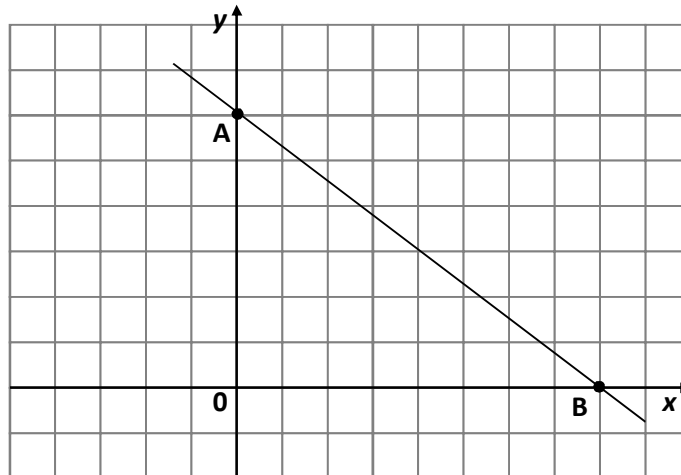


Straight Line (Exam Type Questions)

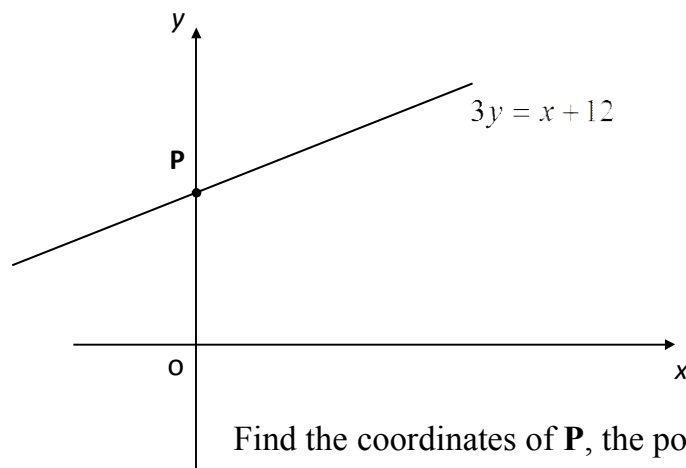
- A straight line has the equation $3x - 2y = -4$.
Find the gradient and y -intercept of the line.
- The line AB passes through the points $(0, 6)$ and $(8, 0)$ as shown in the diagram.



Find the equation of the line AB.

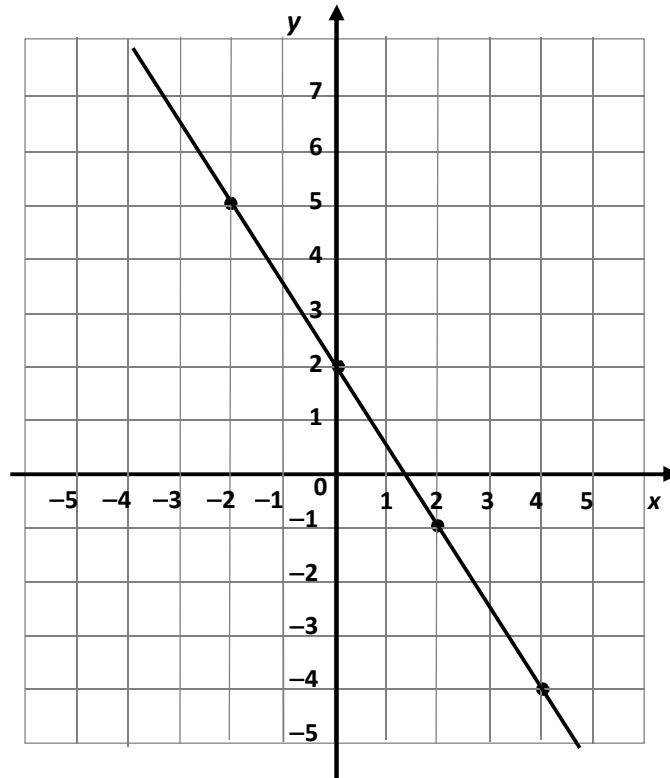
- A straight line has equation $2y + 3x = 8$. Which line of these gives its gradient and y -intercept? Show working to explain your answer.

A. 3 and $(0, 8)$	B. -3 and $(0, 8)$
C. $\frac{3}{2}$ and $(0, 4)$	D. $-\frac{3}{2}$ and $(0, 4)$
- Find the gradient and y -intercept of the straight line with equation $3x - 4y = 12$.
- The diagram below shows the line with equation $3y = x + 12$.

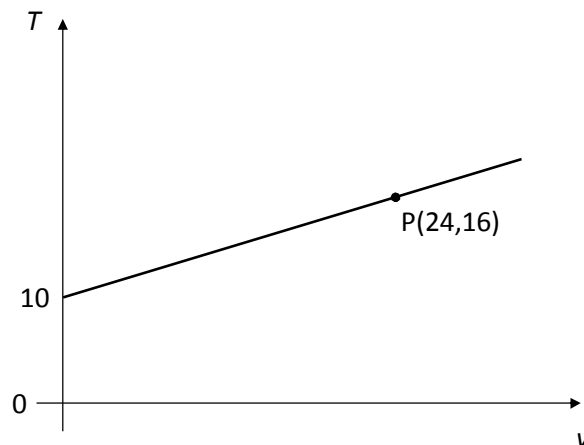


Find the coordinates of **P**, the point where the line cuts the y -axis.

6. Find the equation of the line shown in the diagram below.



7. A line has equation $2y + 6x = 9$. Find its gradient and y - intercept.
8. A line has equation $3y + 4x = 15$. Make a sketch of this line on plain paper showing clearly where it crosses the y - axis.
9. The relationship between variables v and T produces a straight line graph as shown below. The line passes through the point $P(24,16)$ as shown.



- (a) Find the gradient of the line.
- (b) Hence, write down the equation of the line in terms of v and T .