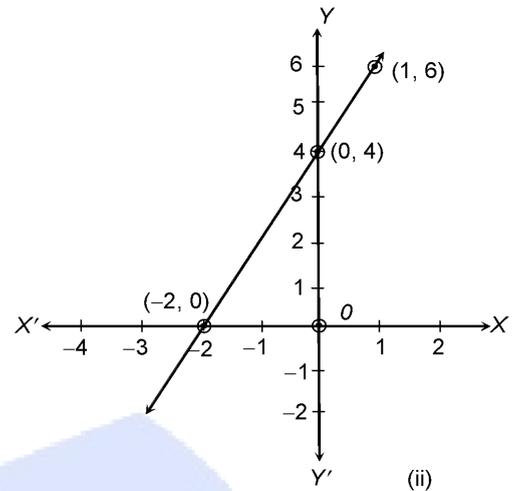
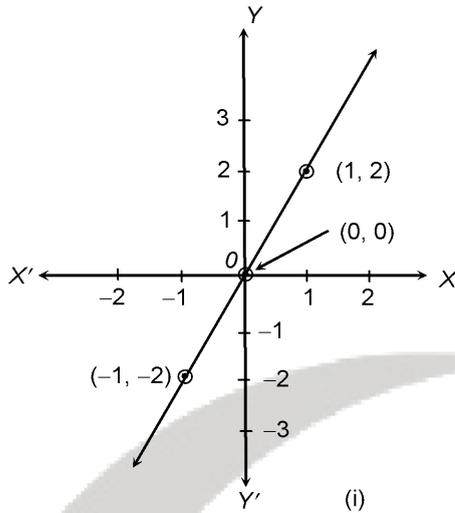


- Solve the equation $\frac{x}{4} + 7 = 19$ and verify the answer
- Find two solutions for $3x + 6y = 15$.
- Represent the linear equation $-2x + 3y - 6$ in the form $ax + by + c = 0$ and determine the values of a, b and c.
- Find the value of k if $x = 2, y = 1$ is a solution of the equation $2x + 3y = k$.
- Express x in terms of y, it is being given that $7x - 3y = 15$. Check without drawing graph, if the line given by this equation intersects the y-axis at $y = -5$.
- The following observed values of x and y are suppose to satisfy the equation $y = ax + b$. Find the values of a and b.

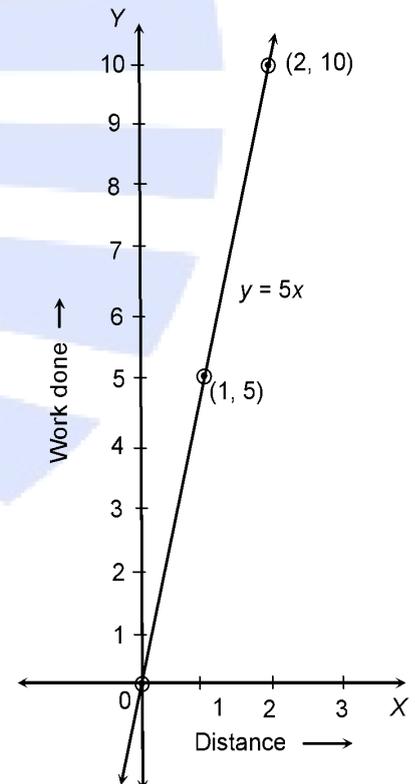
x	0	1	-1	2	-2
y	3	5	1	7	-1

- Find solutions of the form $x = a, y = 0$ and $x = 0, y = b$ for equation $3x + 2y = 6$ and $5x - 2y = 10$. Does this pair has a common solution?
- Give the equations of four lines passing through (4, 20). How many more such lines are there, and why?
- Draw the graph of the line $3x + y = 6$. Find the coordinate of the points at which this line intersects the axes
- Draw the graph of each of the following linear equation in to variables:
 - $x + y = 4$
 - $y = 3x$
 - $2x + y = 3$
- For each of the graphs given in figure select the equation whose graph it is from choice given below:
 - For figure (i)
 - $x + y = 0$
 - $y = 2x$
 - $y = x$
 - $y = 2x + 1$
 - $x + y = 0$
 - $y = 2x$
 - $y = 2x + 4$
 - $y = x - 4$



12. The taxi fare in a city is as follows. For the first kilometer, the fare is Rs. 8 and for the subsequent distance it is Rs. 5 per km. Taking the distance covered as x km and total fare Rs. 4, write a linear equation for this information, and draw its graph.
13. Yamini and Fatima, two students of class IX of a school, together contributed Rs. 100 towards the prime minister's Relief Fund to help the earthquake victims. Write a linear equation which this data satisfies. Draw the graph of the same.
14. The work done by a body on application of a constant force is directly proportional to the distance travelled by the body. Express this in the form of an equation in two variables and draw the graph of the same by taking the constant force as 5 units. Read from the graph the work done when the distance travelled by the body is

- (i) 2 units (ii) 0 units



15. In countries like USA and Canada temperature is measured in Fahrenheit, whereas in countries like India, it is measured in Celsius. Here is a linear equation that converts Fahrenheit to Celsius is :

$$F = \frac{9}{5}C + 32$$

- (i) Draw the graph of the linear equation above using Celsius for x-axis and Fahrenheit for y-axis
 - (ii) If the temperature is 30°C , what is the temperature in Fahrenheit?
 - (iii) If the temperature is 95°F , what is the temperature in Fahrenheit and if the temperature is 0°F , what is the temperature in Celsius?
 - (iv) Is there a temperature which is numerically the same in both Fahrenheit and Celsius?
16. Draw the graph of the line $y = |x|$.
17. Solve the equation $2x + 1 = x - 3$, and represent the solution(s) on
- (i) the number line (in one variable)
 - (ii) the Cartesian plane (in two variable)