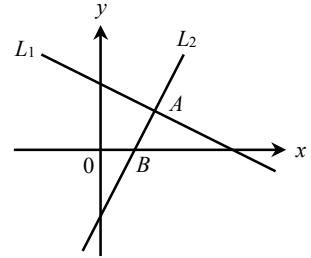


Name: _____ () Class: _____ Date: _____ Marks: ____/10 Time: 10 minutes

Section Quiz 15.1

- In each of the following, find the equation of the straight line satisfying the given conditions.
 - A vertical straight line passes through $(2, 6)$. (1 mark)
 - A straight line passes through $(-1, -3)$ and is parallel to the x -axis. (1 mark)
- L_1 is a straight line with y -intercept 9 and perpendicular to a straight line L_2 . L_1 and L_2 intersect at $A(8, 5)$.
 - Find the equations of L_1 and L_2 . (6 marks)
 - If L_2 cuts the x -axis at B , find the coordinates of B . (2 marks)



Name: _____ () Class: _____ Date: _____ Marks: ____/8 Time: 10 minutes

Section Quiz 15.2

A straight line $L: 2x - 3y - 12 = 0$ cuts the x -axis and the y -axis at P and Q respectively.

- Find the slope, the x -intercept and the y -intercept of L . (3 marks)
- Find the coordinates of the mid-point M of PQ . (2 marks)
- Find the equation of the straight line passing through M with x -intercept -5 in the general form. (3 marks)

Name: _____ () Class: _____ Date: _____ Marks: _____/12 Time: 10 minutes

Section Quiz 15.3

1. Find the number of points of intersection of $L_1: y = 3x + 11$ and $L_2: 6x - 2y + 11 = 0$. (3 marks)

2. Two straight lines $L_1: 4x - y + 7 = 0$ and $L_2: 5x + 2y - 1 = 0$ intersect at a point A .
 - (a) Find the coordinates of A . (3 marks)
 - (b) If the straight line $L_3: 3x - 4y + k = 0$ passes through A , find the value of k . (2 marks)
 - (c) Find the equation of a straight line L_4 passing through A and perpendicular to the line L_3 in the general form. (4 marks)