

**Q 5:** Are the lines L1 and L2 passing through the given pairs of points **parallel**, **perpendicular** or **neither parallel nor perpendicular**?

a. L1: (1 , 2) , (3 , 1) and L2: (0 , -1) , (2 , 0)

b. L1: (0 , 3) , (3 , 1) and L2: (-1 , 4) , (-7 , -5)

c. L1: (2 , -1) , (5 , -7) and L2: (0 , 0) , (-1 , 2)

d. L1: (1 , 0) , (2 , 0) and L2: (5 , -5) , (-10 , -5)

e. L1: (-2 , 5) , (-2 , 7) and L2: (5 , 1) , (5 , 13)

**Q6:** Is it possible for two lines with negative slopes to be perpendicular?