(LCH 2015 Paper 2 Q

Question 3

(a) The co-ordinates of two points are A(4, -1) and B(7, t).

The line $l_1: 3x - 4y - 12 = 0$ is perpendicular to *AB*. Find the value of *t*.

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(b) Find, in terms of k, the distance between the point P(10, k) and l_1 .



(c) P(10, k) is on a bisector of the angles between the lines l_1 and $l_2: 5x + 12y - 20 = 0$.





(25 marks)

