Question 1

(a) The coordinates of three points are A(2, -6), B(6, -12), and C(-4, 3). Find the perpendicular distance from A to BC.

Based on your answer, what can you conclude about the relationship between the points A, B, and C?

Distance:												 		 	 			
C	ono	clus	sior	า:												 		
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(25 marks)

The diagram below shows two lines a and b. The equation of a is x - 2y + 1 = 0. (b) The acute angle between a and b is θ . Line b makes an angle of 60° with the positive sense of the *x*-axis, as shown in the diagram.

Find the value of θ , in degrees, correct to 3 decimal places.

