(a)	Describe the conditions required for two waves to be able to form a stationary wave.	
		[2]
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(b)	A stationary wave on a string has nodes and antinodes. The distance between a node and an adjacent antinode is 6.0 cm.	
	(i)	State what is meant by a <i>node</i> .
		[1]
	(ii)	Calculate the wavelength of the two waves forming the stationary wave.
		wavelength = cm [1]
	(iii)	State the phase difference between the particles at two adjacent antinodes of the stationary wave.
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		phase difference =° [1]
		[Total: 5]