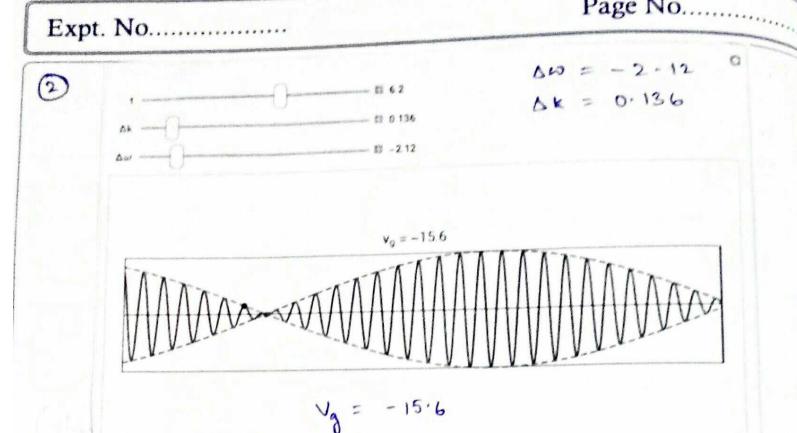
Phase	and	Cleans No	clocity	of	EM	waves	
Objecti	ve:						
To und	westand	the na	ture of	EM	waves	teravellin	Y
in a	Mediu	m with	the	help	of 1	have one	P
Gowap	velociti	es .		1	V		
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Observa	tion Tab	Q.					
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		0				0.123	
		NAME OF TAXABLE PARTY.					
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	1.		$V_{q} = -19$	6			
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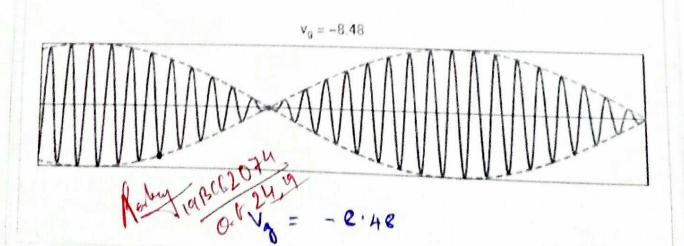


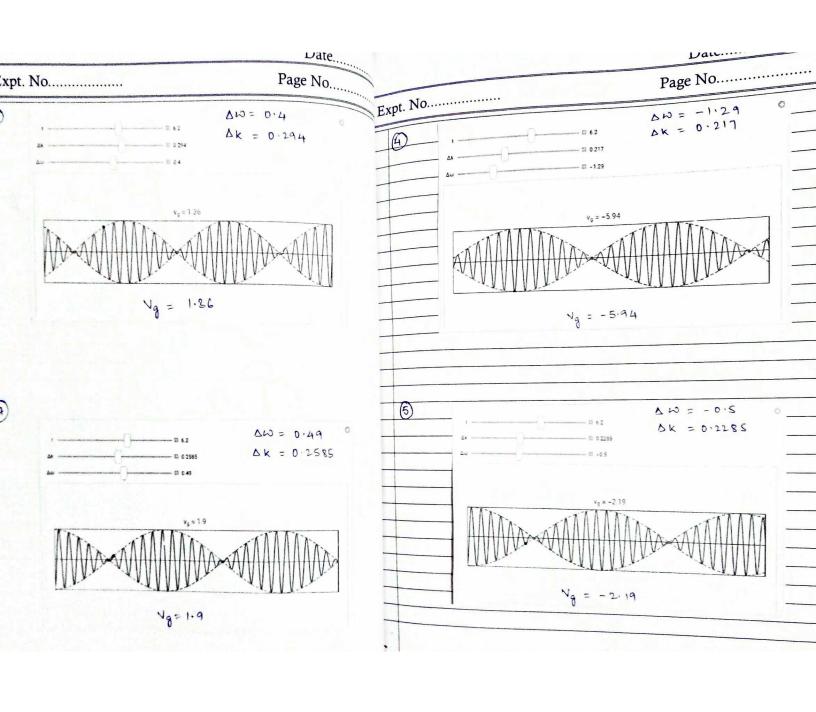


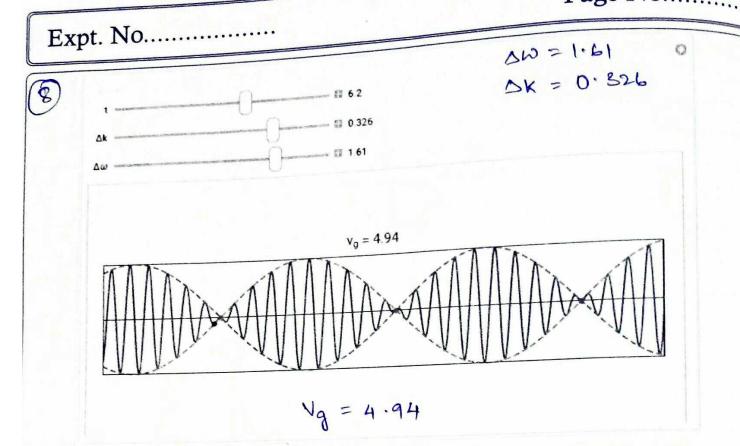


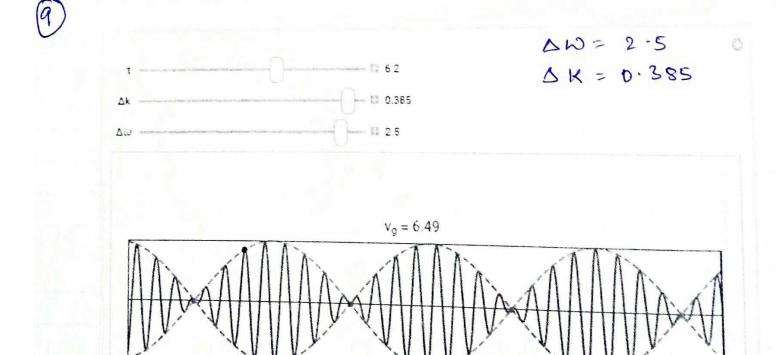
$$\Delta \omega = -1.45 \quad \circ$$

$$\Delta k = 0.171$$









Vg = 6.49

rage No..... Inference:-I Are the wave patterns for various value of AND and AX same? Of not why? The the neave patterns are not the same for marions value of An and Ak becaused up t vg in a dispussive medium the phase relocities of the components of the envelope causes the neare packet to "speed ont" over time. It is some in all cases but up is different, therefore wave pattern is not constant, 2) comment on the Phense velocity (Vp) of the names for increased values of sw and sk. There is a no change in the value of phase velocity for increased values of so 3) when do ne see Vp: Vg? Justin the medium is mon-dispussine one and there is no change in the refractive index across the medium.

