BINARY PHASE DIAGRAMS - SOLID SOLUTIONS

The attached phase diagram shows the equilibrium relationships at 1 Atm for the binary system Mg ₂ SiO ₄ . The only phases found in the system are liquid and olivine solid solution.				
1.	Lines A and B are referred to as the		and	
2.	How many degrees of freedom exist fo	r each of the f	following points?	
	C	C"		
3.	Describe what happens during perfect e are the relative proportions of the phase	quilibrium cry	stallization of a liquid of composition	
4.	Describe what happens during perfect	fractional crys	stallization of liquid C .	
5.	If a solid of composition C was heated,	, what would b	be the composition of the first liquid?	
6.	Compared to the plagioclases, zoning is true? (HINT: The question cannot be a			

