Short Quiz - 3	Name:	
EE-407 Sec 1		
Set A	ID No:	

- Q.1 (a)A load impedance of 50 j100 Ω has to be matched to a 70 Ω loss-less transmission line using a parallelly connected shorted-circuited single–stub, as illustrated in figure. Use calculations and smith-chart to determine;
 - (a) the **VSWR** of the transmission line.
 - (b) the required shortest **length** l_1 and related **length** l_2 in terms of a wavelength.



