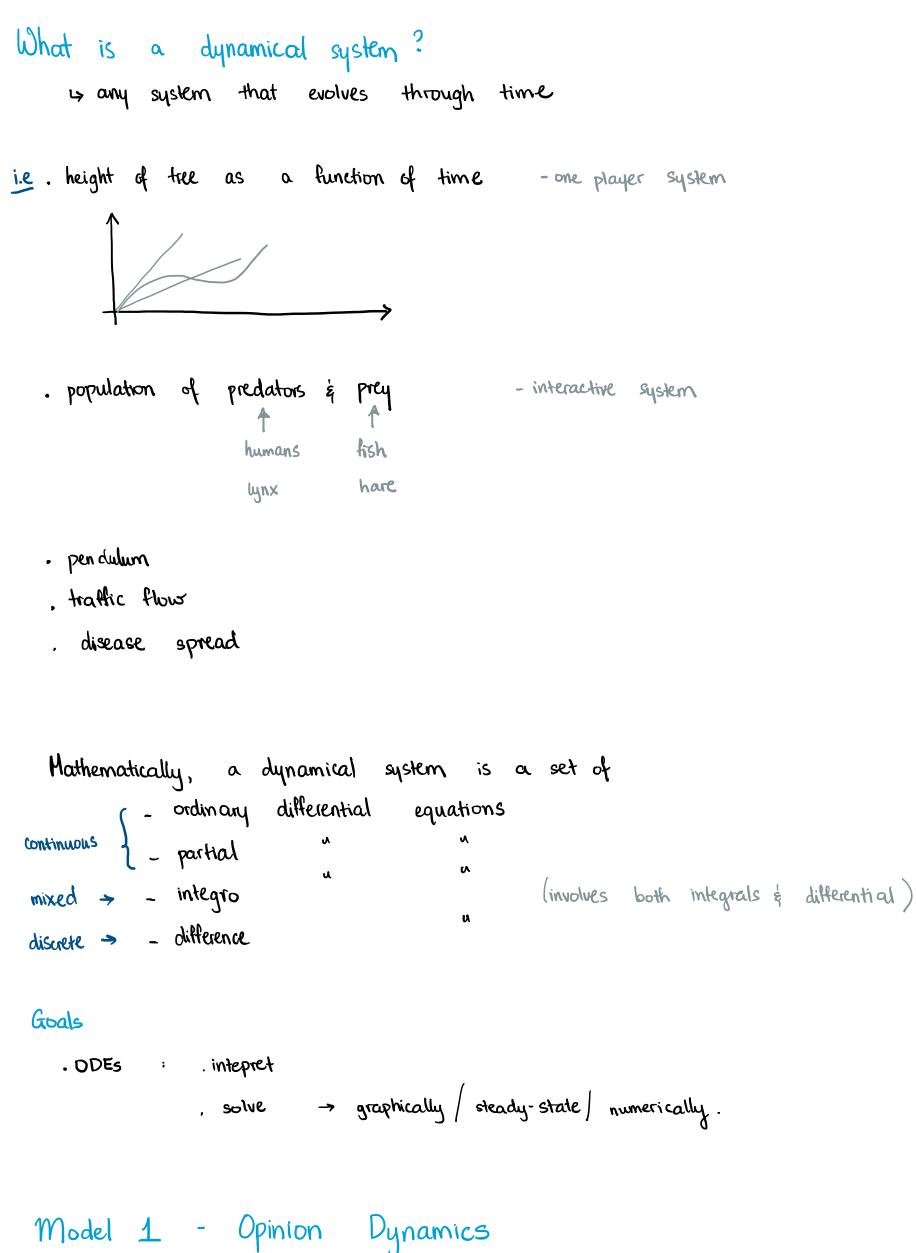
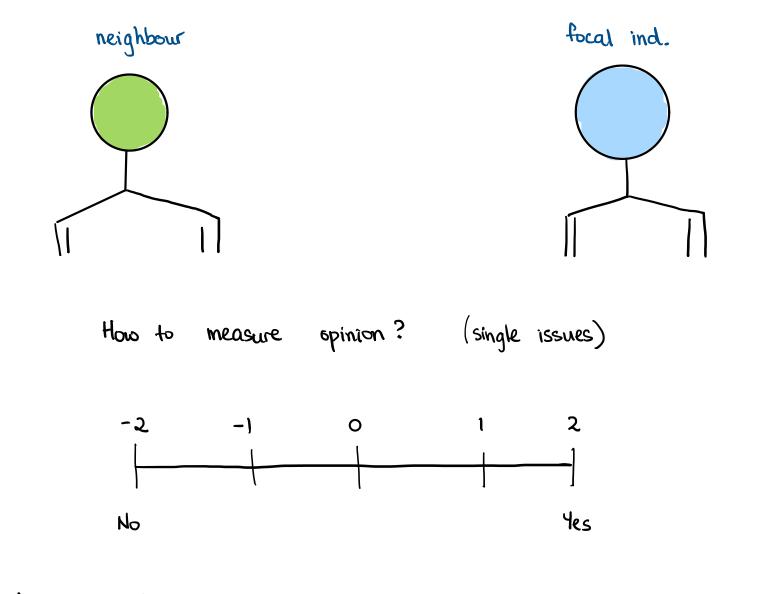
September 5

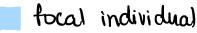
Thursday, September 5, 2019 3:28 PM



Types of Behaviours

- . steady- state
- . steady increase ( decrease
- . oscillation







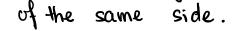
## No Amplification

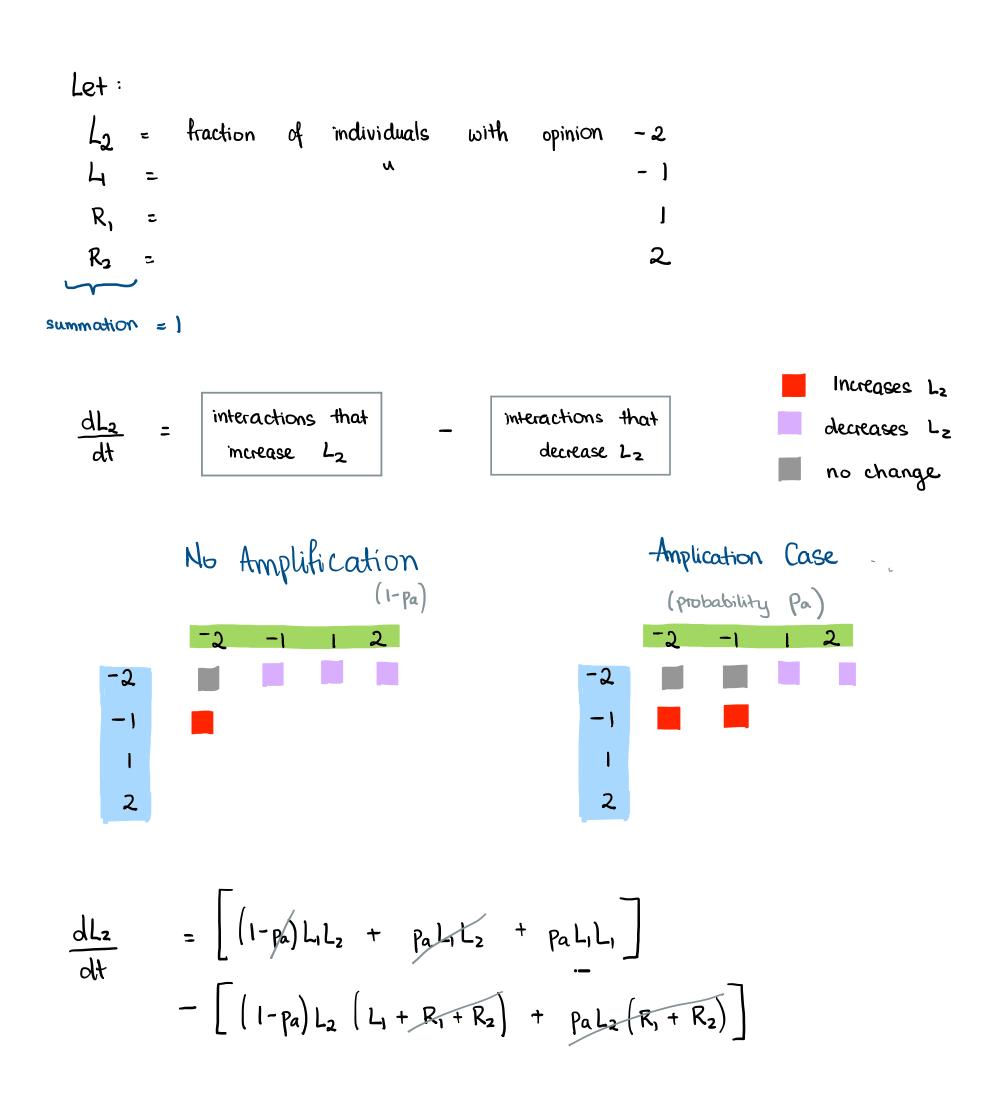
	-2	-1		2
-2	-2	-1	-1	-1
-)	-2	-]	I	l
1	-1	-1		2
2	1	I	1	2

<u>Rule</u>: The focal individual moves 1 step forward the opinion of the chosen neighbour

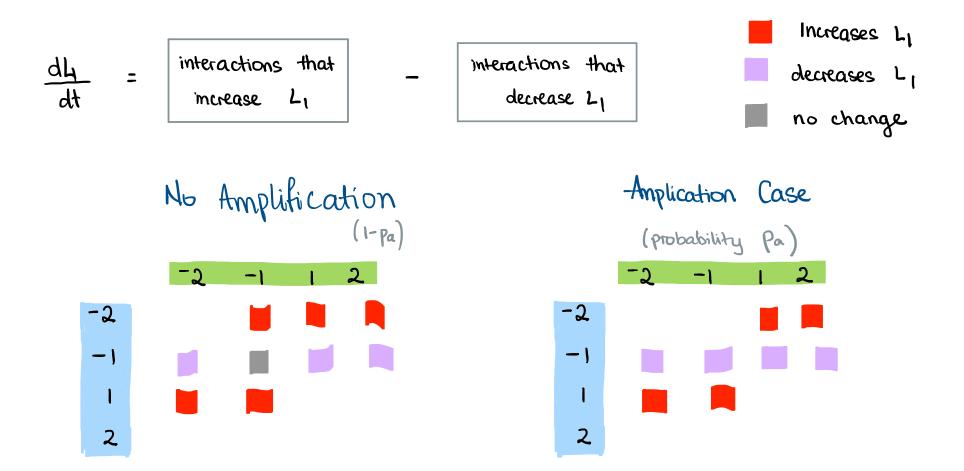
	-Ampl	ication	Cas	se	~ 6
	( pro	bability	y Pa	)	
	-2	-1	L	2	
-2	-2	-2	-1	-)	
-1	- 2	-2	)	ι	
I	-1	-1	2	2	
2	l	I	2	Q	
Rule: The focal individual's					als
opinion becomes mor				ne en	itrenched

(1step) if interacting w/a neighbour





$$= \left[ L_1 L_2 + p_a L_1 L_3 \right] - \left[ (1 - p_a) L_2 L_1 \right]$$



$$\frac{dL_{1}}{dt} = \left[ (1-p_{a})(L_{1}L_{2} + R_{1}L_{2} + R_{2}L_{a}) + p_{a}(R_{1}L_{2} + R_{a}L_{a}) + (1-p_{a})R_{1}(L_{2} + L_{1}) + p_{a}R_{1}(L_{2} + L_{1}) \right] \\ - \left[ (1-p_{a})L_{1}(L_{2} + R_{1} + R_{2}) + p_{a}L_{1}(L_{2} + L_{1} + R_{1} + R_{2}) \right] \\ - \left[ eheck \quad literature paper : answer on pg 4 \right] \\$$
Another way to model the change in  $L_{2}$ :  
 $L_{2} = increased - decreased \\ = increased - \left[ L_{2} - no \text{ change} \right]$