# SPATIAL VOTING (MULTIPLE DIMENSIONS)



#### When does the core exist in two dimension?





























We are going to construct an agenda starting with y and ending in x. 45























Step	1	2	3	Coalition
a <sub>3</sub> Py	У	a <sub>3</sub>	a <sub>3</sub>	V2, V3
a <sub>2</sub> Pa <sub>3</sub>				
a <sub>1</sub> Pa <sub>2</sub>				
xPa <sub>1</sub>				





Step	1	2	3	Coalition
a <sub>3</sub> Py				V2, V3
a <sub>2</sub> Pa <sub>3</sub>				V1, V2
a <sub>1</sub> Pa <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	a <sub>1</sub>	V1, V3
xPa <sub>1</sub>				



