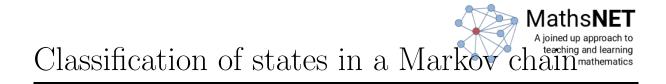
• Explain in your own words what we mean when we talk about the limiting behavior of a Markov chain.
• How is the return time to a state defined.
• What is the distinction between the transient and the recurrent states in a Markov chain.
• Draw an example of a Markov chain with one transient state and one recurrent state



•	Draw transition	graphs for	or two	Markov	${\rm chains}$	with	one	${\it transient}$	and	two	${\bf recurrent}$	states	that
	have different lin	niting beh	naviors										

• Draw an example of a Markov chain with 3 recurrent states and 4 transient states.