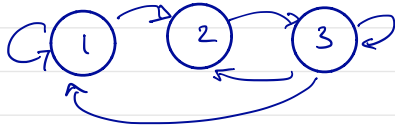


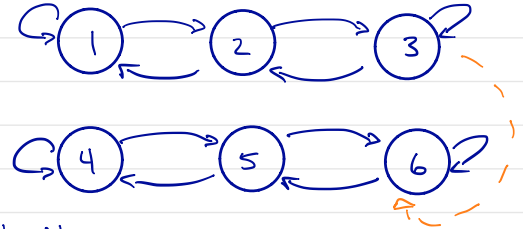
[To understand a few key properties of Markov Chains it's useful to have a few examples in mind.]  
 \* Assume unif. transition probabilities.

#1



- Irreducible
- All states recurrent

#2



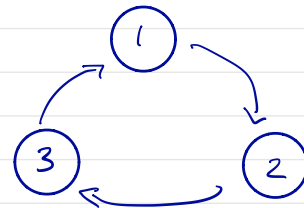
- Reducible
- All states recurrent [but not as nice]
- Added edge makes 1, 2, 3 transient

#3



- Reducible
- 1, 2 transient states
- 0, 3 absorbing states
- 0, 3 recurrent states

#4



- Irreducible
- All states recurrent
- \* Called a periodic Markov Chain