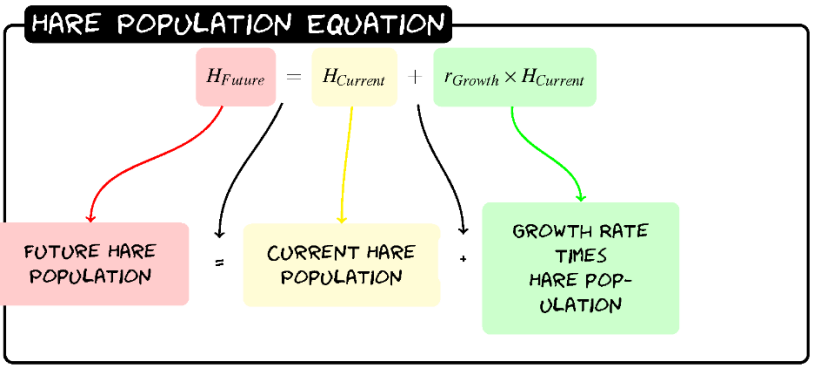
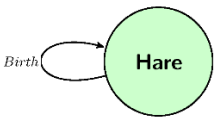
The Maths of Predators and Preys

Don’t get Eaten by the Wolf

Hares

No predators

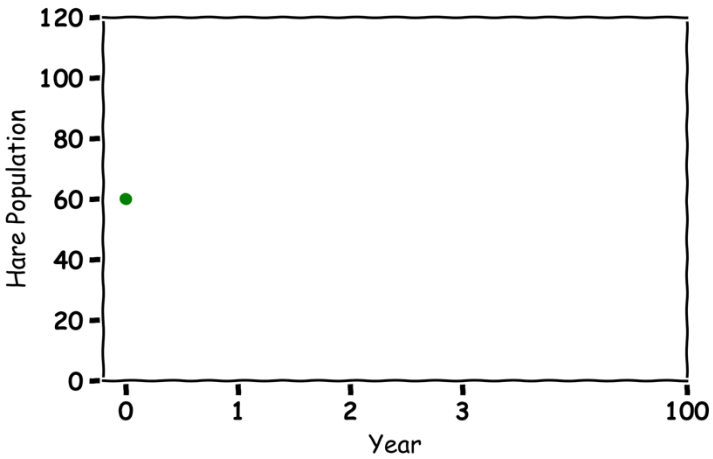




Given a population of 60 Hares and a growth rate of 0.2 what would the population be after three years?

Year	*Hare Population*
0	60
1	
2	
3	

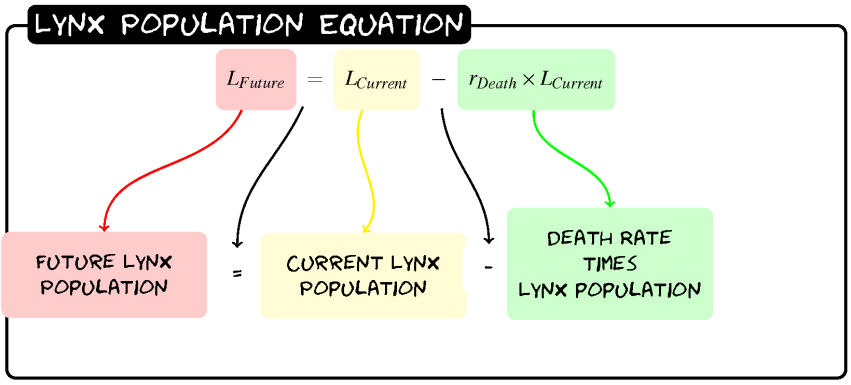
Sketch the Graph.

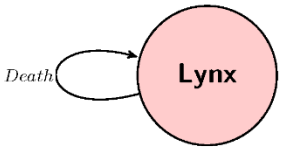


Guess what would happen in 100 years?

Lynx

No Prey

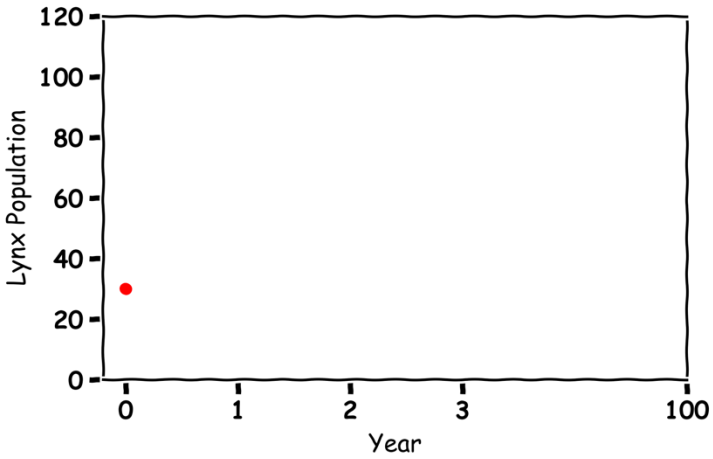




Given a population of 30 Lynxes and a death rate of 0.1 what would the population be after three years?

Year	Lynx Population
0	30
1	
2	
3	

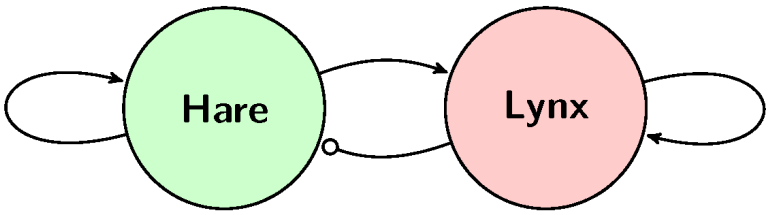
Sketch the Graph.

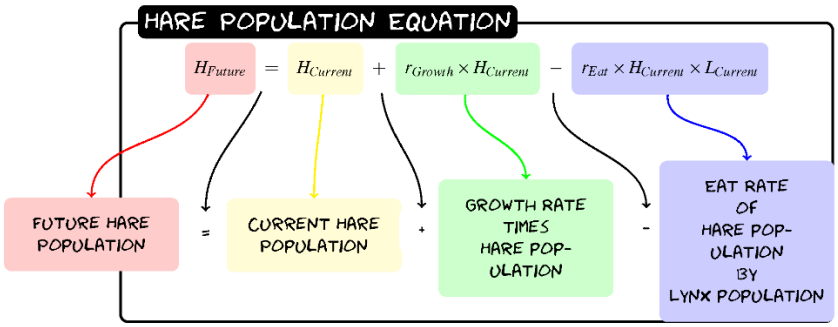


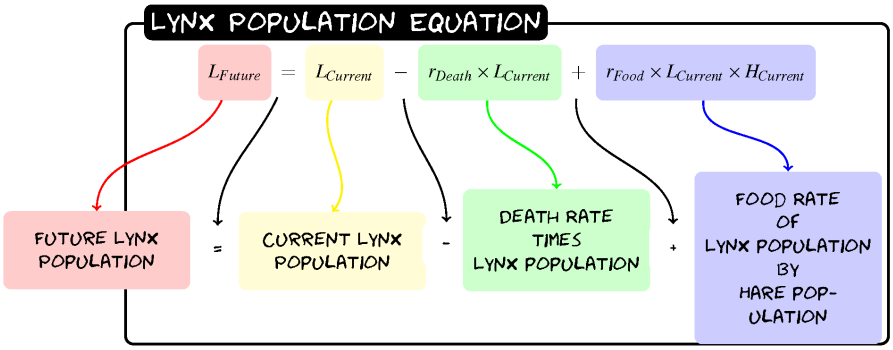
Guess what would happen in 100 years?

Hares and Lynxes

Label the graph:





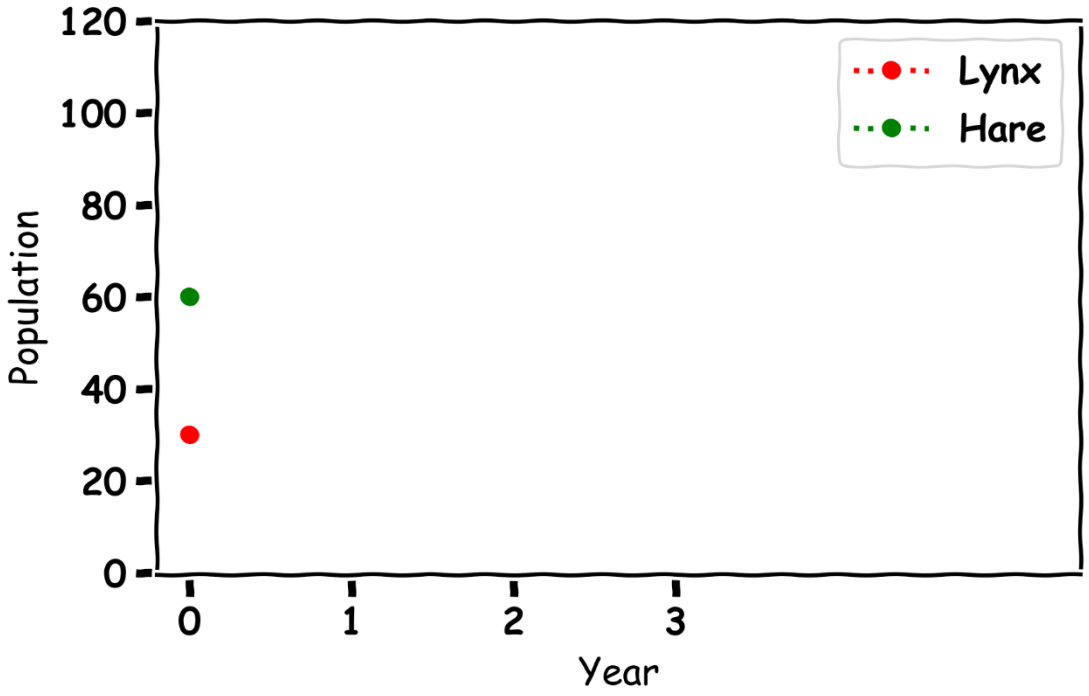


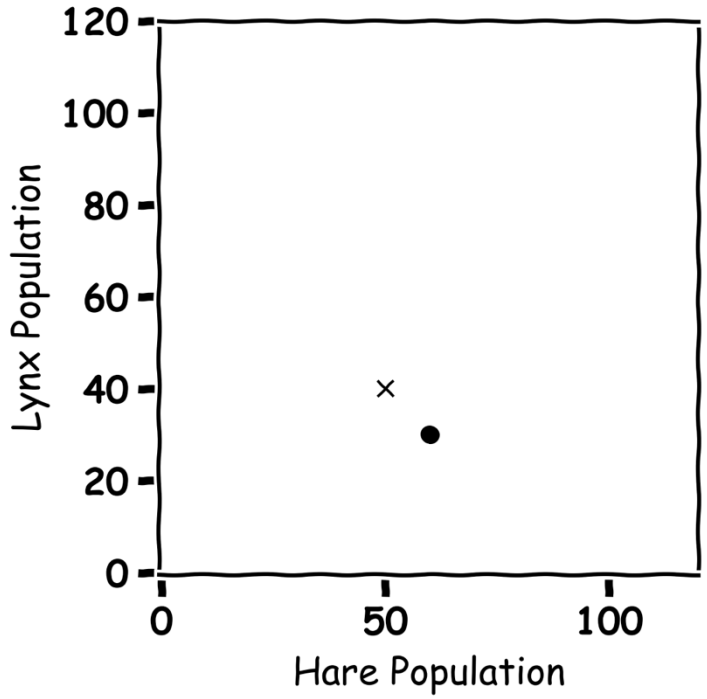
Given a population of 60 Hares and 30 Lynxes with a birth rate of .2, a death rate of 0.1, a eat rate of 0.005 and a food rate of 0.002 what would the populations be after three years?

Hare	Hare	Lynx	Value
Growth	0.2	**Death**	0.1
Eat	0.005	**Food**	0.002

Year	*Hare Population*	*Lynx Population*
0	60	30
1		
2		
3		

Sketch the graph:





Don’t get Eaten by the Wolf

Label the graph