

- Competing system

Type of non-trivial Equilibrium

- sink node \Rightarrow Both species exist

- Saddle node \Rightarrow At least one species exists

(In most cases, the other goes extinct.
In some cases, both exist)

- Prey-Predator (Infinite food)

Type of non-trivial Equilibrium

- can only be center \Rightarrow Both species exist & oscillate

- Prey-Predator (finite food)

Type of non-trivial Equilibrium

- sink spiral \Rightarrow species coexist & converges to Equilibrium

- sink node \Rightarrow