

set variable **influx of cat pictures** as **usual rate of posting cat pictures** + **likelihood of posting a cat picture** · **number of cats**

set variable **outflow of cat pictures** as **outflow of cat pictures**

set variable **number of cat pictures** as **number of cat pictures** + **influx of cat pictures** - **outflow of cat pictures**

set variable **influx of cats** as **rate of acquiring cats as pets** + **likelihood of adopting a cat after seeing a lot of cat pictures** · **number of cat pictures**

set variable **outflow of cats** as **outflow of cats**

set variable **number of cats** as **number of cats** + **influx of cats** - **outflow of cats**