

## Section 7.1: Graphing Linear Systems

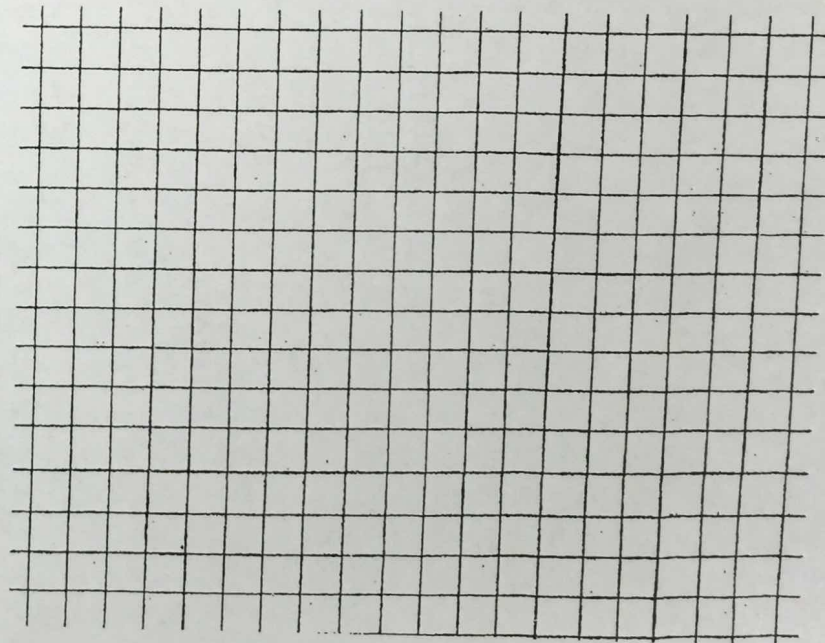
### EX: 2

You are an ecologist studying the population of two types of fish in a lake.

**Type A:** There are currently 5750 fish and they are decreasing at a rate of 250 per year.

**Type B:** There are currently 3500 fish and they are increasing at a rate of 500 per year.

Predict how many years it will take for there to be an equal number of the two types of fish.



**EX: 3**

**Bryce and his sister Julia each have a savings account for college. In April, Bryce's account had a balance of \$2000 and he plans to deposit an additional \$50 per month. At the same time, Julia's account had a balance of \$1600 and she plans to deposit \$100 per month. Predict when Bryce and Julia will have the same amount in their college accounts.**

