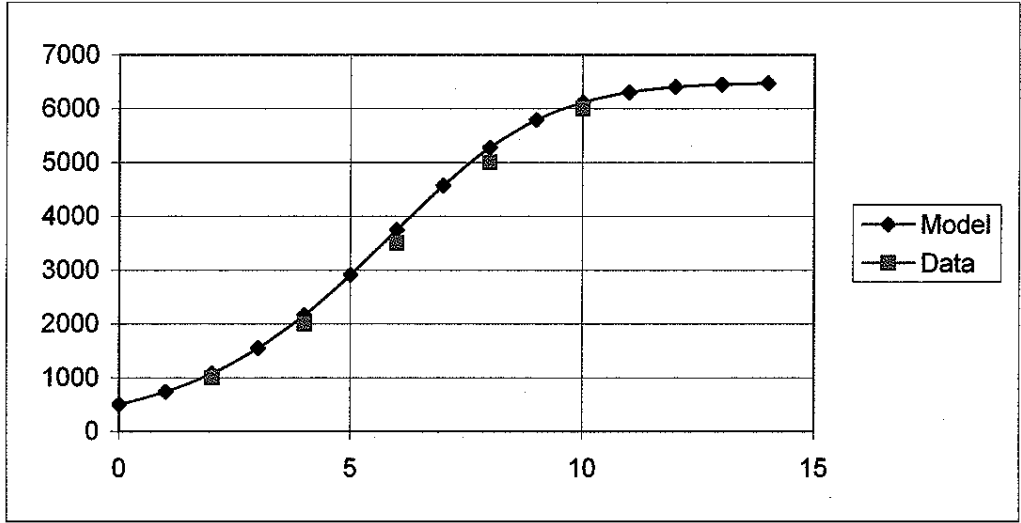


MATH 465 Class Discussion for 09/24

A new lake was created after building a dam. The number of fish censused after 2, 4, 6, 8, and 10 years was 1000, 2000, 3500, 5000, and 6000. Estimate parameters of the logistic model. Plot the data and the model on the same graph.



At what level will the number of fish in the lake stabilize?

Suppose the owners of the lake decide to take 4 fish per week from the lake. Will that rate of fishing deplete the stock? What is the maximum number of that can be caught per year without depleting the stock?