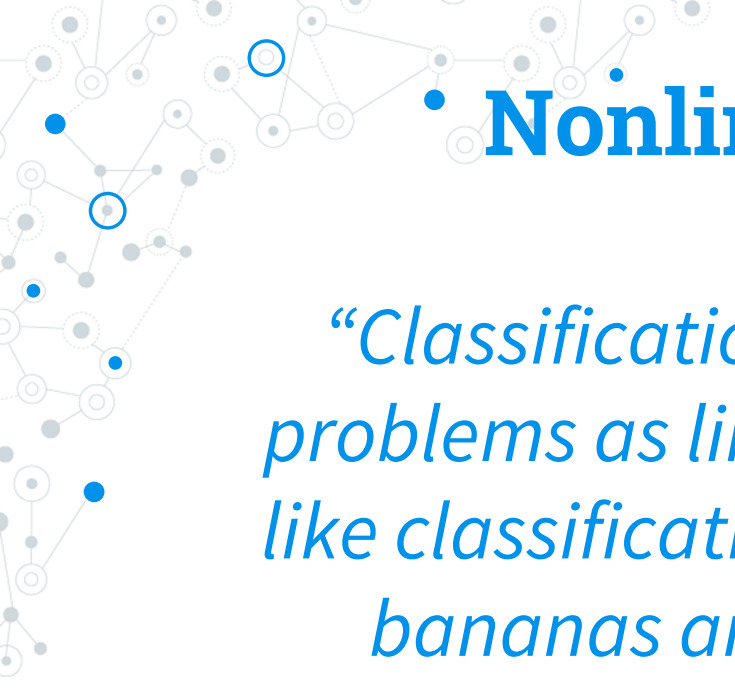


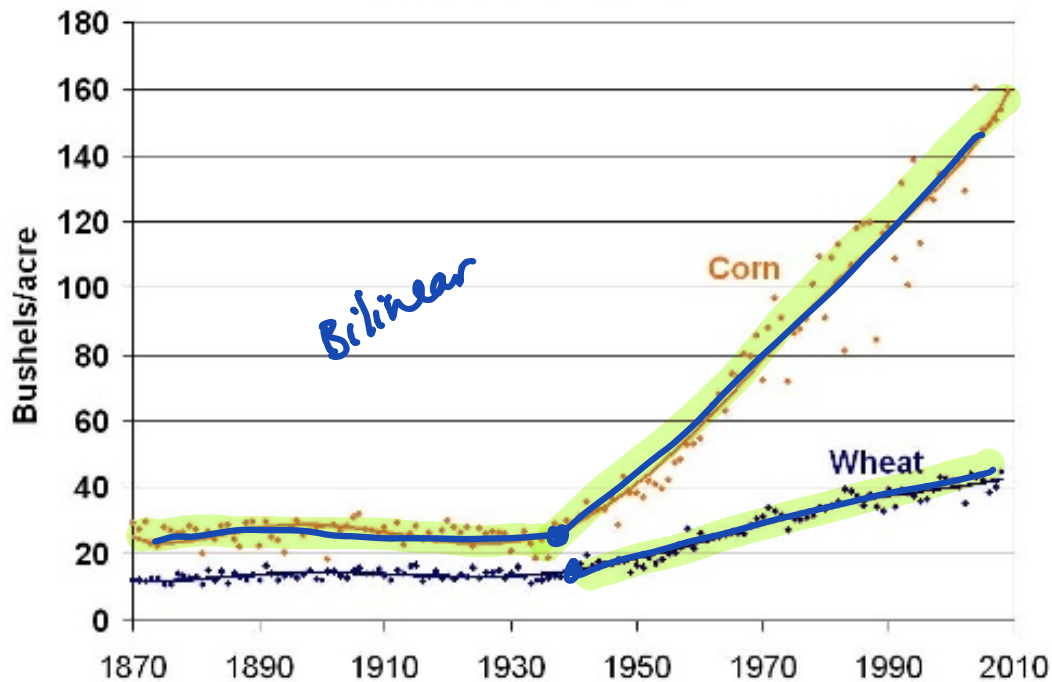


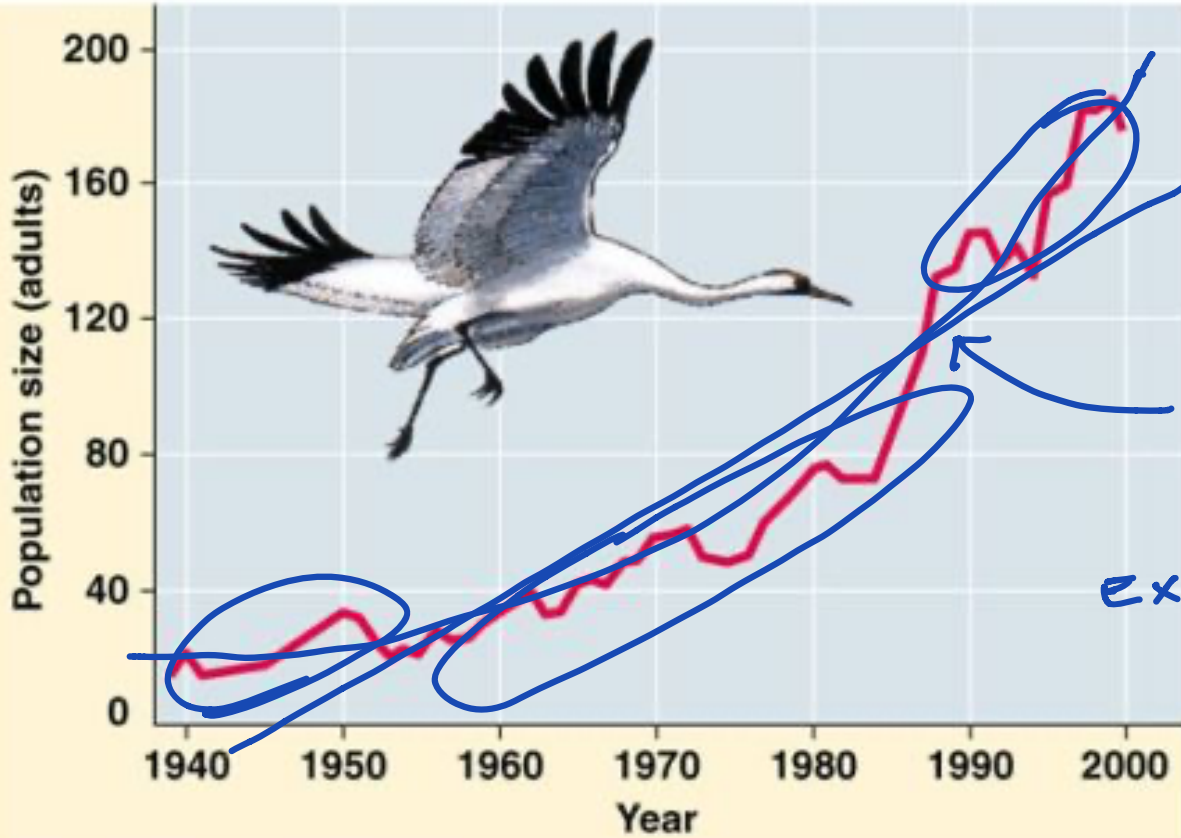
• Nonlinear models

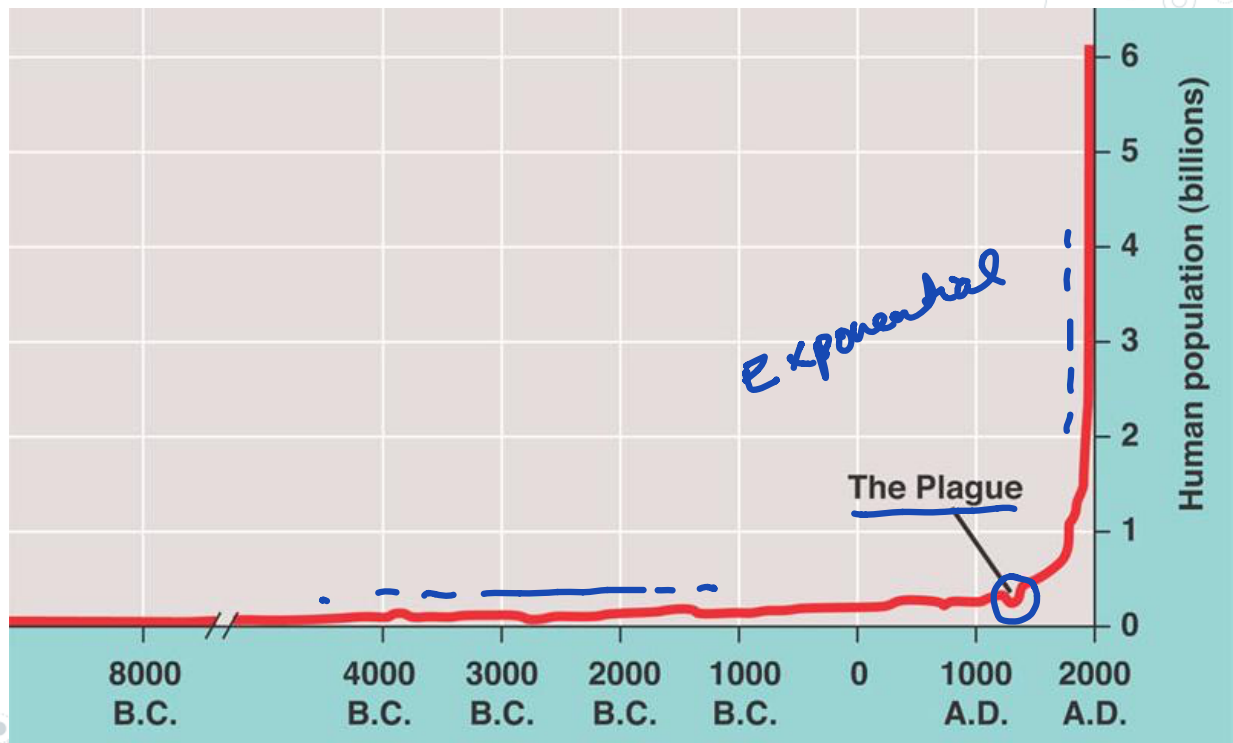
“Classification of mathematical problems as linear and nonlinear is like classification of the Universe as bananas and non-bananas.”



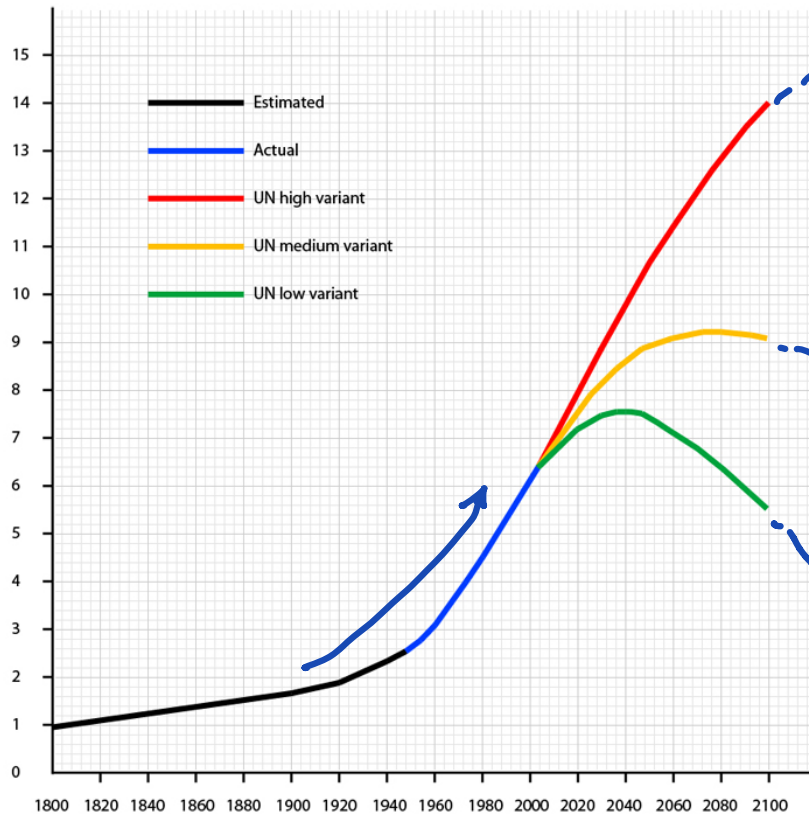
Historical Crop Yield Progress in the United States (Source USDA NASS)





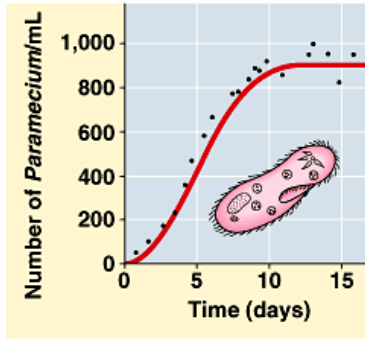


World population (billions)



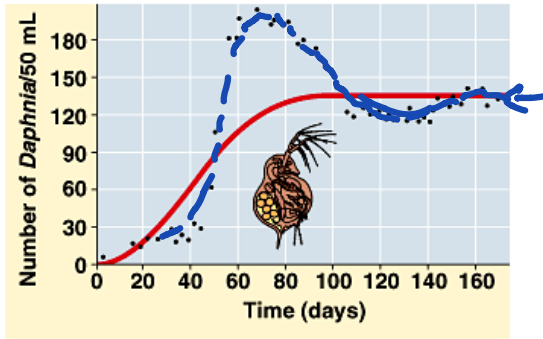


damping

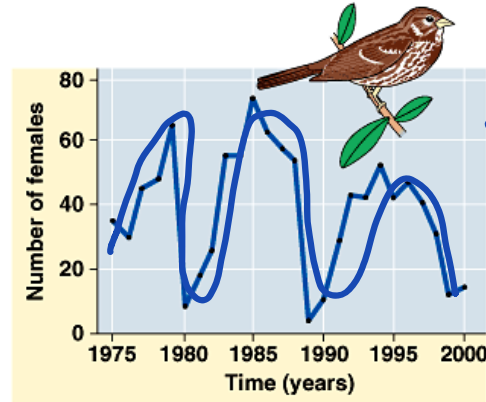


carrying capacity

(a) A *Paramecium* population in the lab

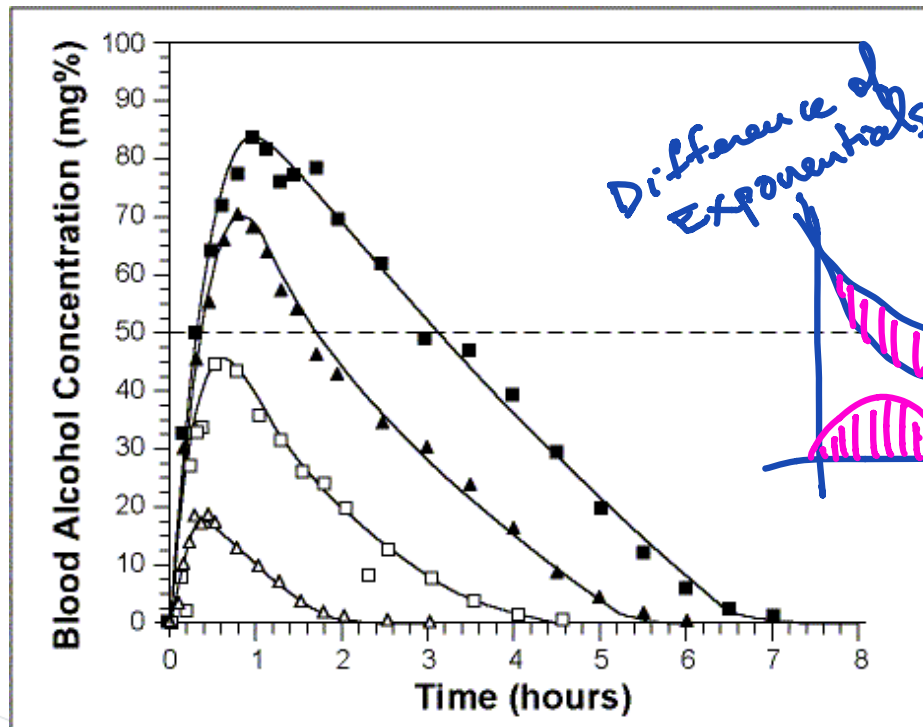


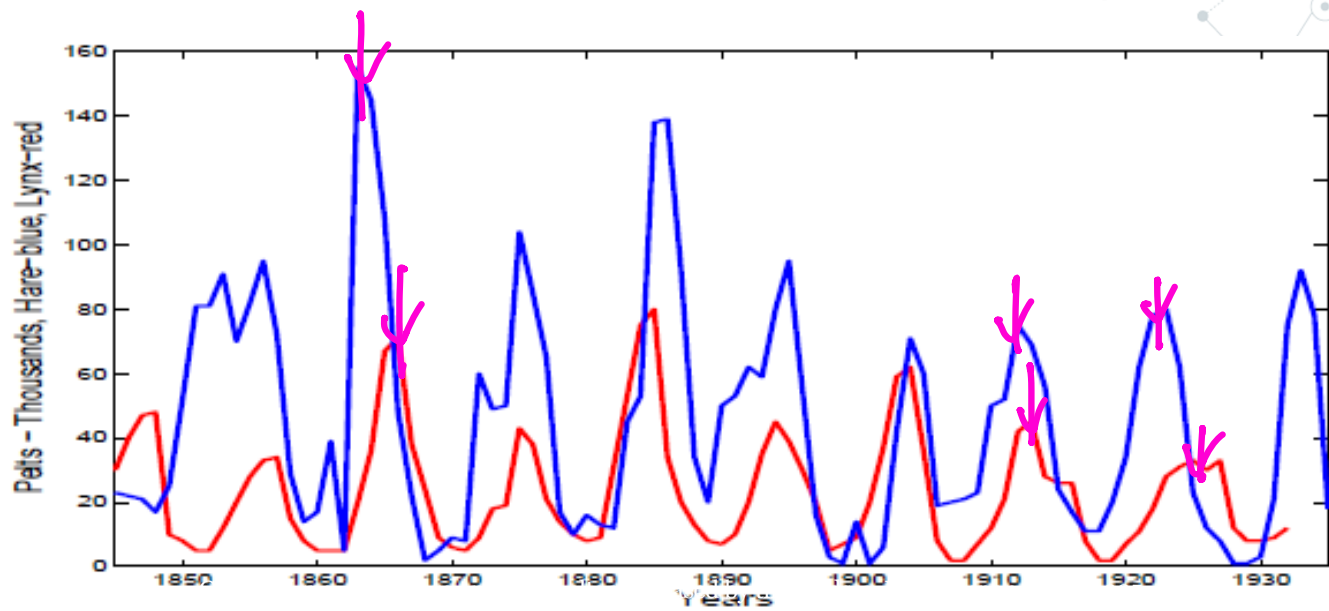
(b) A *Daphnia* population in the lab



sinusoids
sine
 $\sin x$

(c) A song sparrow population in its natural habitat





Northwest Territories, Nunavut and Yukon Monthly Employment and Unemployment Rate

