308 notes 8.1-8.4

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This is a chaotic note.

What is chaos? My understanding of chaos is that it is a deterministic system that is unpredictable. It is possible to computationally solve for a chaotic system, however, not analytically. And the system is so sensitive to initial conditions that a small inconsistency would result in a huge deviation between results. What I wasn't expecting was the fact that there's a degree up till which we can not make predictions, for example, in weather forcast, but I guess that also makes sense since we cannot be infinitely precise.