

Sections 6.8 and 6.9: Exponential Models

Group work:

Problem 1 *Vitameatavegamin is a strange substance that comes in two forms. V-I decays at a linear rate, while V-II decays at an exponential rate. Both have the property that 10 ounces will decrease to 7 ounces in 6 hours. For each of V-I and V-II, answer the following:*

- (a) *If we started with 80 ounces, how much will there be 6 hours later?*
- (b) *How long will it take to decrease from 15 ounces to 7.5 ounces?*