

P. 482 # 4

Iodine 131 decays according to the equation

$$A(t) = A_0 e^{-0.087t}$$

where t is measured in days. Assume that we start with 100 grams of iodine 131.

- a. What is the decay rate – that is, what percentage decays every day?
- c. How much Iodine 131 remains after 9 days?
- e. What is the half-life of Iodine 131?