

Math 375, Spring 2026, Quiz 28, 4/27/26

Name:

The amount of a radioactive substance decreases by 8.62% each day. You begin with 28.0 micrograms.

- a) Find an exponential model.
- b) Find the amount remaining after 15 days.
- c) Find the half-life.

Ans:

- a) $R(t) = 28.0(0.9138)^t$
- b) $R(15) = 7.24$ micrograms
- c) 7.69 days