

## Algebra II Worksheet #6 Unit 10 selected solutions

2. A certain radioactive substance with a mass of 1500 grams has a half-life of 10 years. Express its mass,  $Q$ , as a function of time,  $t$ , in years. Graph this function for values of  $t$  from 0 to 30 years.

function:  $Q = 1500(2)^{\frac{-t}{10}}$

t	A
0	1500
5	1061
10	750
15	530
20	375
25	265
30	188

