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

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