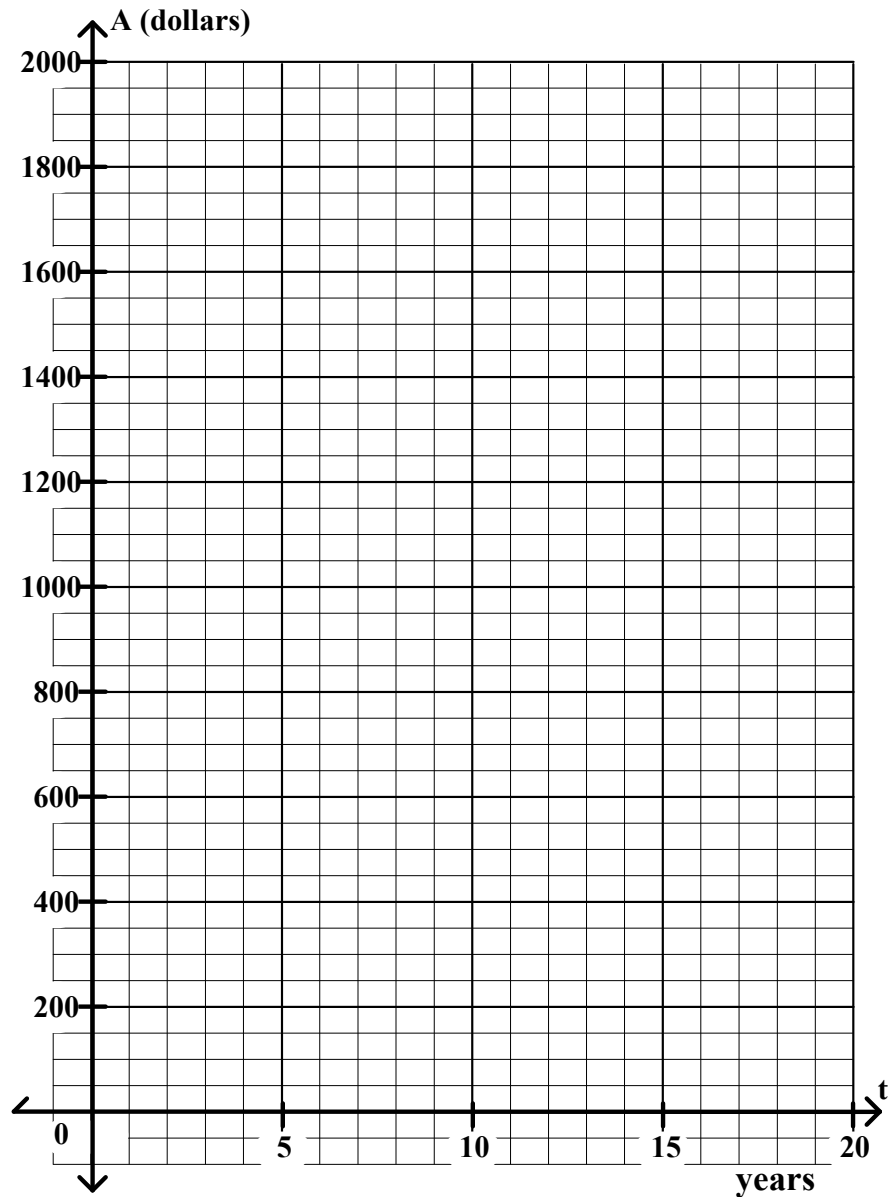


1. \$600 is invested in an account paying interest at an annual rate of 6 percent compounded monthly. Express the balance of the account,  $A$ , as a function of the time,  $t$ , in years. Graph this function for values of  $t$  from 0 to 20 years.

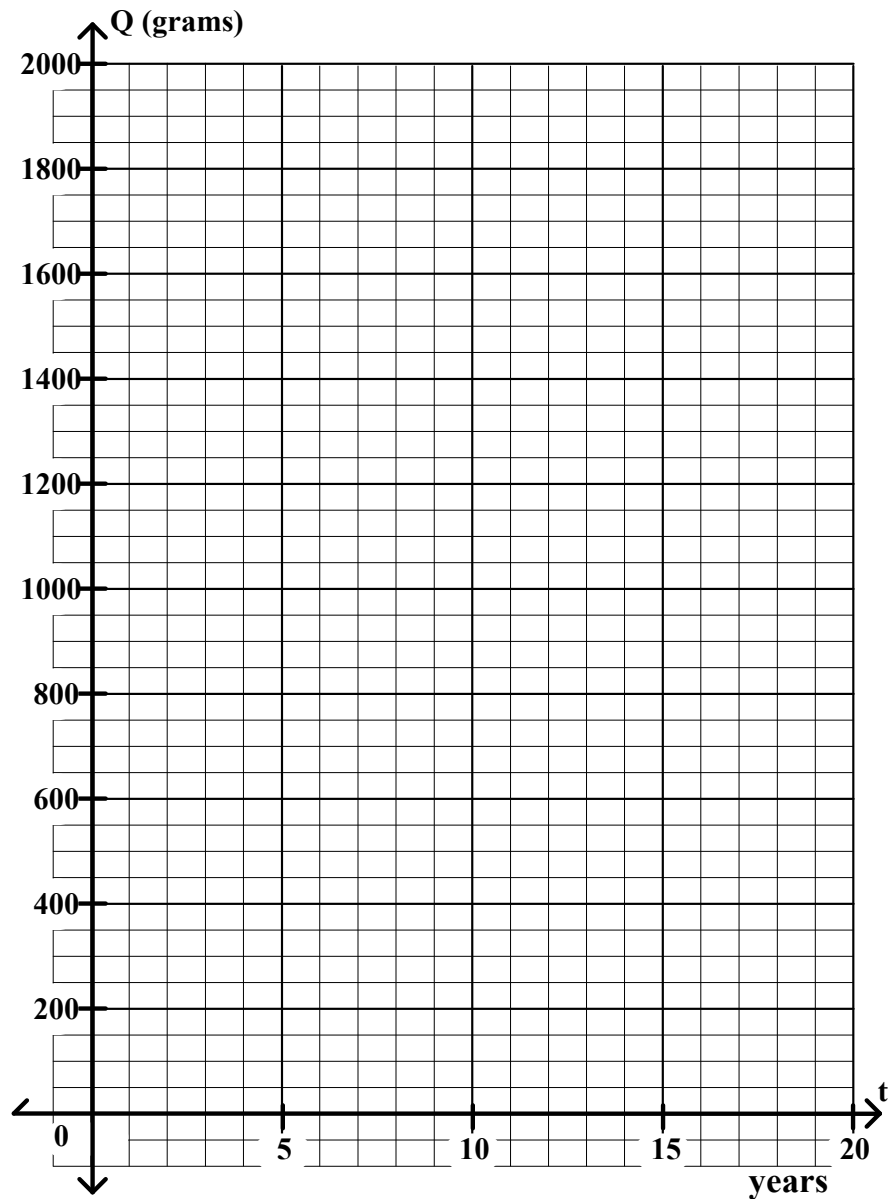
Function: \_\_\_\_\_



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2. A certain radioactive substance with a mass of 2000 grams has a half-life of 6 years. Express its mass,  $Q$ , as a function of time,  $t$ , in years. Graph this function for values of  $t$  from 0 to 20 years.

Function: \_\_\_\_\_



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3. \$600 is invested in an account paying interest at an annual rate of 6% compounded continuously. Express the balance of the account,  $A$ , as a function of the time,  $t$ , in years. Graph this function for values of  $t$  from 0 to 20 years.

Function: \_\_\_\_\_

