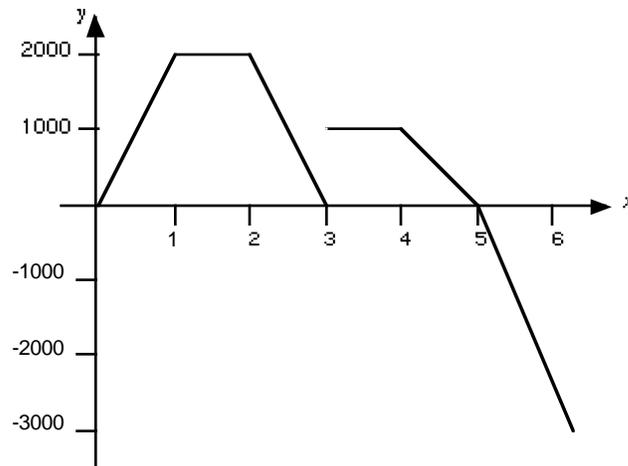




## In Class Exercises (ICE) - 3/21/01

Suppose that  $F(0) = 2$  and that  $F'(x) = f(x)$ . The graph of  $y = f(x)$  is given below. (The lemming is a small rodent found in northern climes.)



The Norwegian Lemming ( *Lemmus lemmus* )

- Calculate the value of  $F(x)$  for  $x = 1, 3, 4, 5$  and  $6$ .
- Suppose that  $x$  has units of days, and  $f(x)$  has the units of lemmings per day. What are the units of  $F(x)$  ?
- In terms of lemmings, explain the possible meaning of  $x$ ,  $f(x)$  and  $F(x)$  in practical terms.
- What do you think happened during the last day?