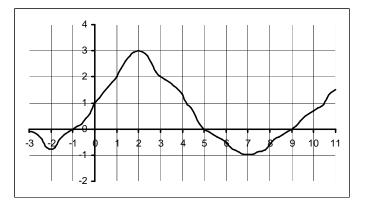
READING GRAPHS OF FUNCTIONS

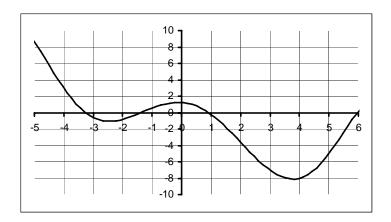
- 1. Use the graph below to answer the following:
 - A. Find f(0).
 - B. Find f(7).
 - C. Find f(2).
 - D. Is f(6) positive or negative?

E. Is f(-1/2) positive or negative? F. Is f(1) > f(6)? G. For what values of x is f(x) = 0? H. For what values of x is f(x) > 0?



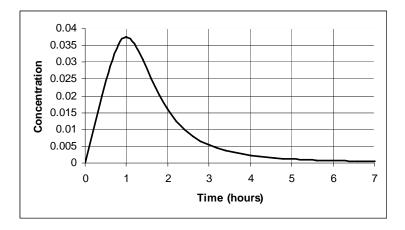
- 2. Use the graph below to answer the following:
 - A. What is f(2)?
 - B. Find x so that f(x) = 3.
 - C. Find the zeros of f(x).
 - D. What is f(f(2))?

- E. On what intervals is f(x) increasing? F. For what value, if any, is f(x) = x?
- G. On what intervals is the rate of increase of f(x) actually decreasing?



3. When a drug is injected into a person's muscle tissue, the concentration of the drug in the blood is a function of the time elapsed since the injection. Use the graph below to answer the following: (t = 0 corresponds to the time of injection)

- A. What is the concentration of the drug one hour after the injection?
- B. Find C(3) and give an interpretation.
- C. Over what interval is the concentration greater than 0.01?



- 4. The graph below illustrates the temperature on a particular day as a function of time since midnight.
 - A. What was the temperature at 3:00 a.m.?
 - B. When was the temperature 5 degrees?
 - C. When was the temperature below freezing? (less than 0 degrees)
 - D. When was the temperature increasing?

