## READING GRAPHS OF FUNCTIONS

1. Use the graph below to answer the following:
A. Find $f(0)$.
E. Is $f(-1 / 2)$ positive or negative?
B. Find $f(7)$.
F. Is $f(1)>f(6)$ ?
C. Find $f(2)$.
G. For what values of $x$ is $f(x)=0$ ?
D. Is $f(6)$ positive or negative?
H. For what values of $x$ is $f(x)>0$ ?

2. Use the graph below to answer the following:
A. What is $f(2)$ ?
E. On what intervals is $f(x)$ increasing?
B. Find $x$ so that $f(x)=3$.
F. For what value, if any, is $f(x)=x$ ?
C. Find the zeros of $f(x)$.
D. What is $f(f(2))$ ?
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?

