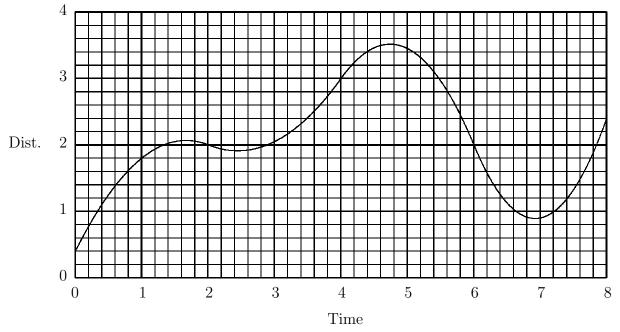
Quiz

Name:

Below is the graph the distance D (measured in feet) of a moth from a light bulb as a function of time t (measured in seconds).



1. Estimate the rate of change of D with respect to t when t = 6 seconds and give the units on the rate of change.

2. At what times is the rate of change D'(t) = 0.

3. On what intervals is the rate on change D'(t) negative?

- 4. At what time is the month moving *toward* the light bulb at the greatest speed?
- 5. Let $f(u) = 10^{u-1}$. Then estimate the rate of change f(1) accurate to one decimal place.