

Math 2215 - Calculus 1

Quiz #4 - 2011.01.31

Name: _____

1. If $P(t)$ is the population (in millions) of a specified group at time t years after the beginning of an observation, explain in words what the following formula represents in terms of the population:

$$\lim_{h \rightarrow 0} \frac{P(3+h) - P(3)}{h}$$

Also, what are the labels on the above given quantity?

2. State what the following formula is the definition of:

$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$