

Mathematics 122

Quiz #2

Name: _____

A colony of bacteria has mass $A(t) = 45(1.06)^t$ mg (milligrams) in t hours after being put in a Petri dish.

- (1) How many milligrams of bacteria were there when the colony was first added to the Petri dish?

- (2) How many milligrams of bacteria are there seven hours after being added to the Petri dish?

- (3) What is the average rate of change of the size of the bacteria colony in the first seven hours it is in the Petri dish?
