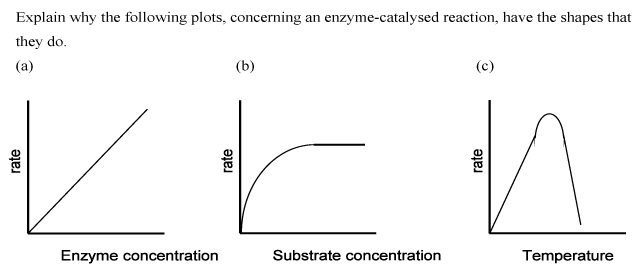
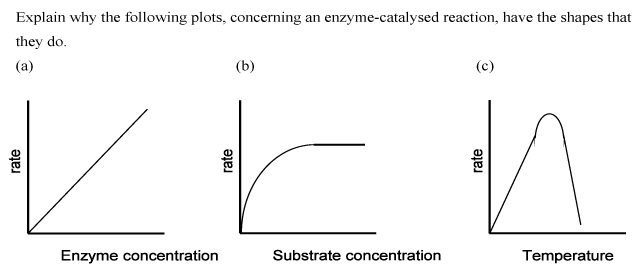
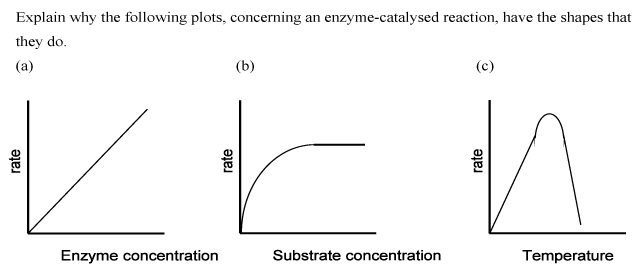
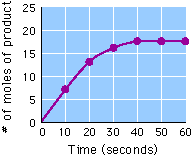
BILL- ENZYME GRAPHS

EXPLAIN why the following graphs have the shape they do.



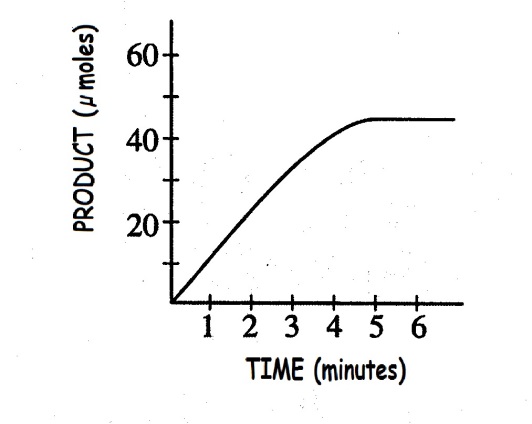




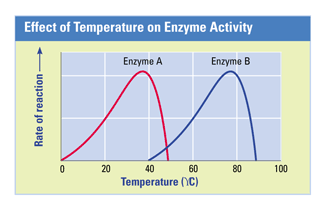


What is the rate, in moles/second, over the   
interval from 0 to 10 seconds?

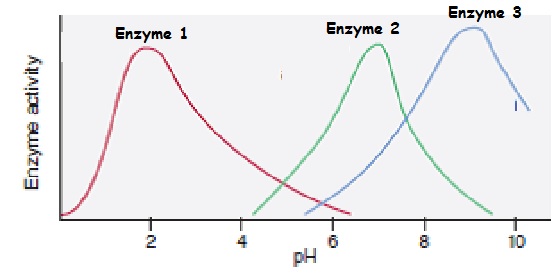
What is the rate, in moles/second, over the   
interval from 40 to 50 seconds?

  
Why does this graph level off after 4 minutes?

PREDICT what the graph would look like if TWICE as   
much enzyme was added

  
At which temperature does enzyme A perform best?   
   
  
At which temperature does enzyme B perform best?

One of these enzymes is found in humans and the other in   
thermophilic (heat-loving) bacteria,   
Hypothesize which enzyme comes from which organism. EXPLAIN YOUR ANSWER  
  
  
Why does the rate of the reaction catalyzed by enzyme A slow down at   
temperatures above 40°C.

Pepsin is an enzyme that works in the   
stomach to break down proteins.  
Which graph do you think represents pepsin?  
EXPLAIN YOUR ANSWER  
E