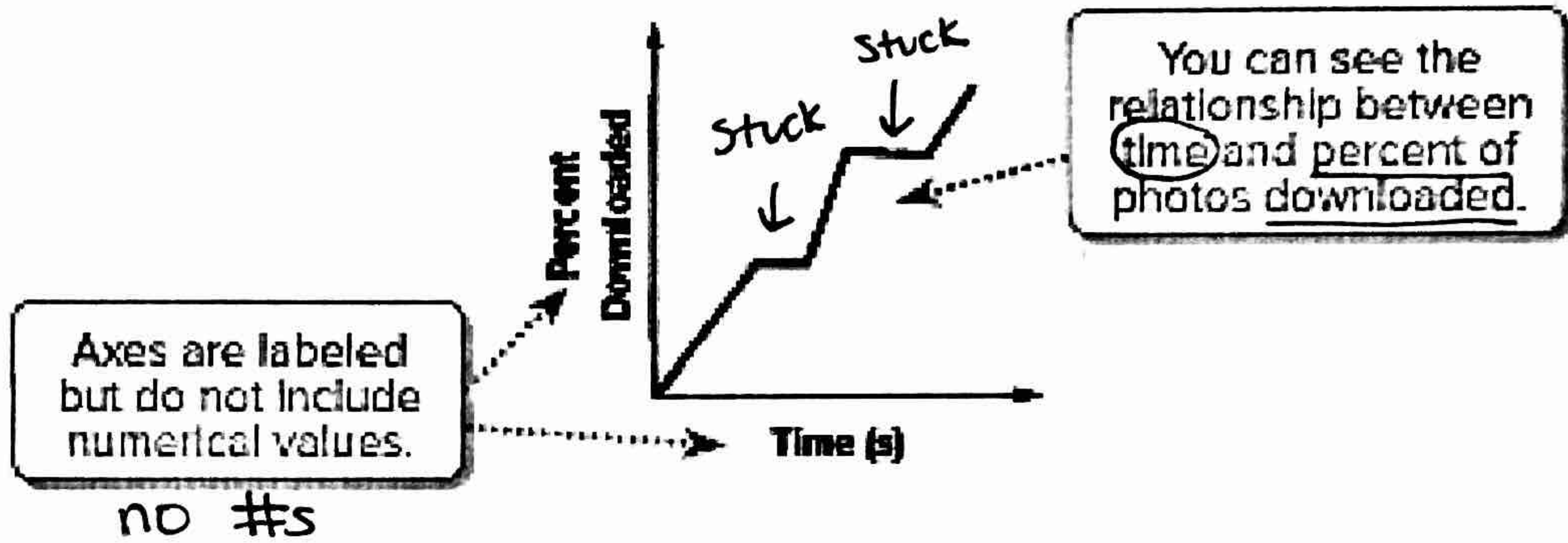


# Video Notes: Qualitative Graphs

*I can describe and sketch qualitative graphs*

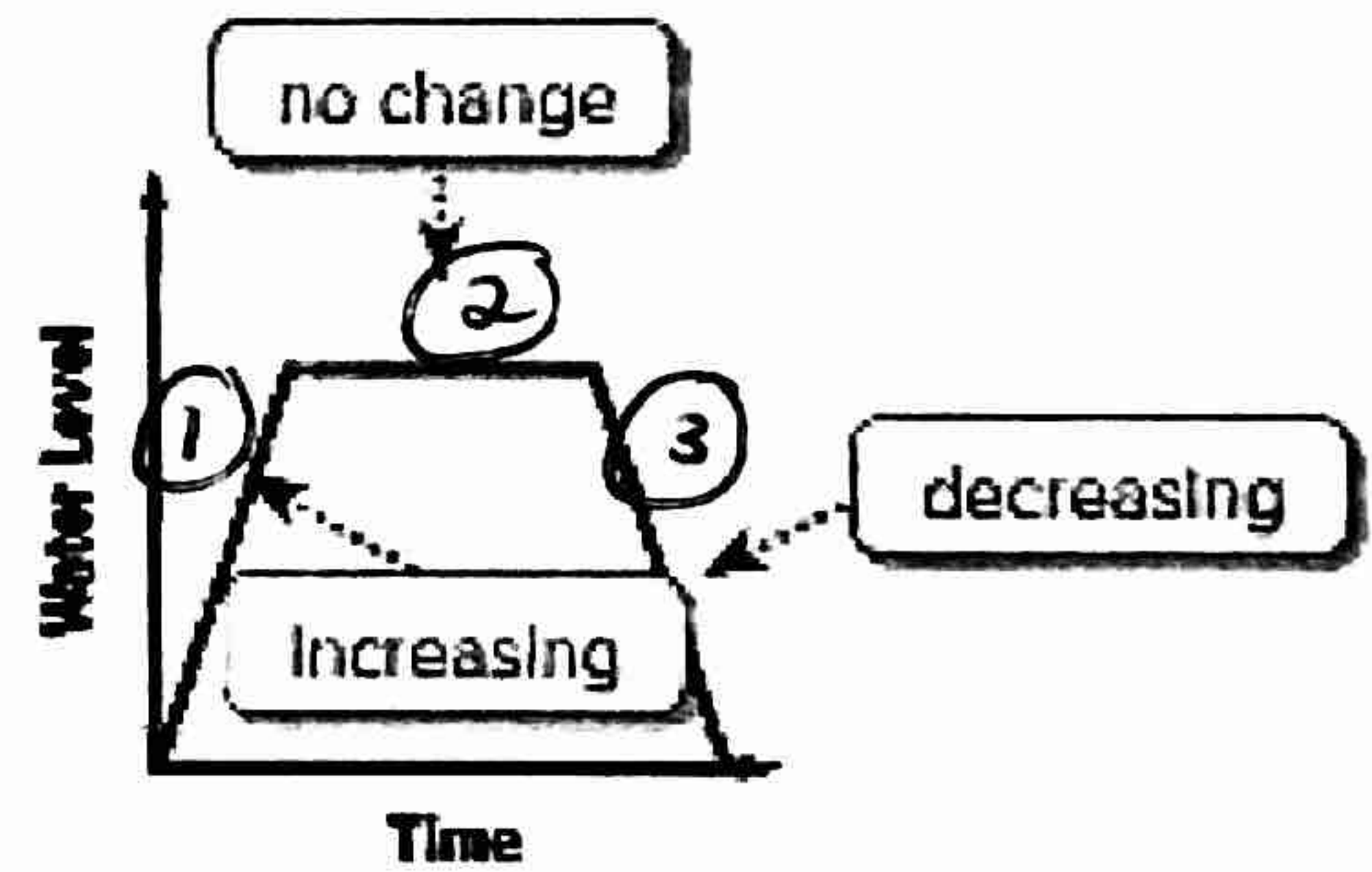
A. Definition: Qualitative graph- graphs used to represent situations that may not have numerical values or graphs in which numerical values are not included.



tell a story

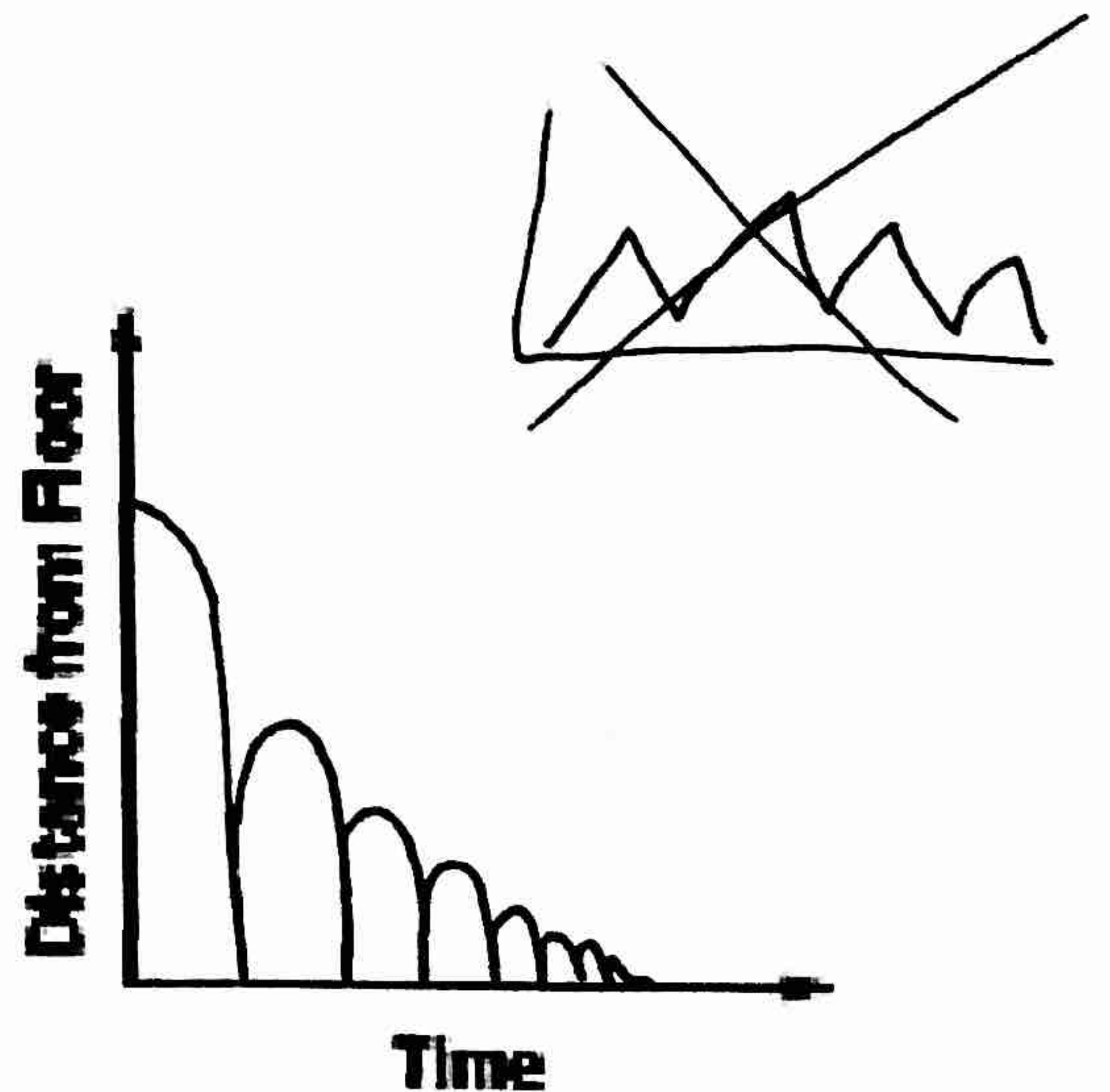
B. The graph at the right displays the water level in a bathtub. Describe the change in the water level over time.

At the beginning the water level was zero. The water level increases at a constant rate. The water is turned off and doesn't change. The plug is pulled and water level decreases at constant rate until empty.



C. A tennis ball is dropped onto the floor. On each successive bounce, it rebounds to a height less than its previous bounce height until it comes to rest on the floor. Sketch a qualitative graph to represent the situation.

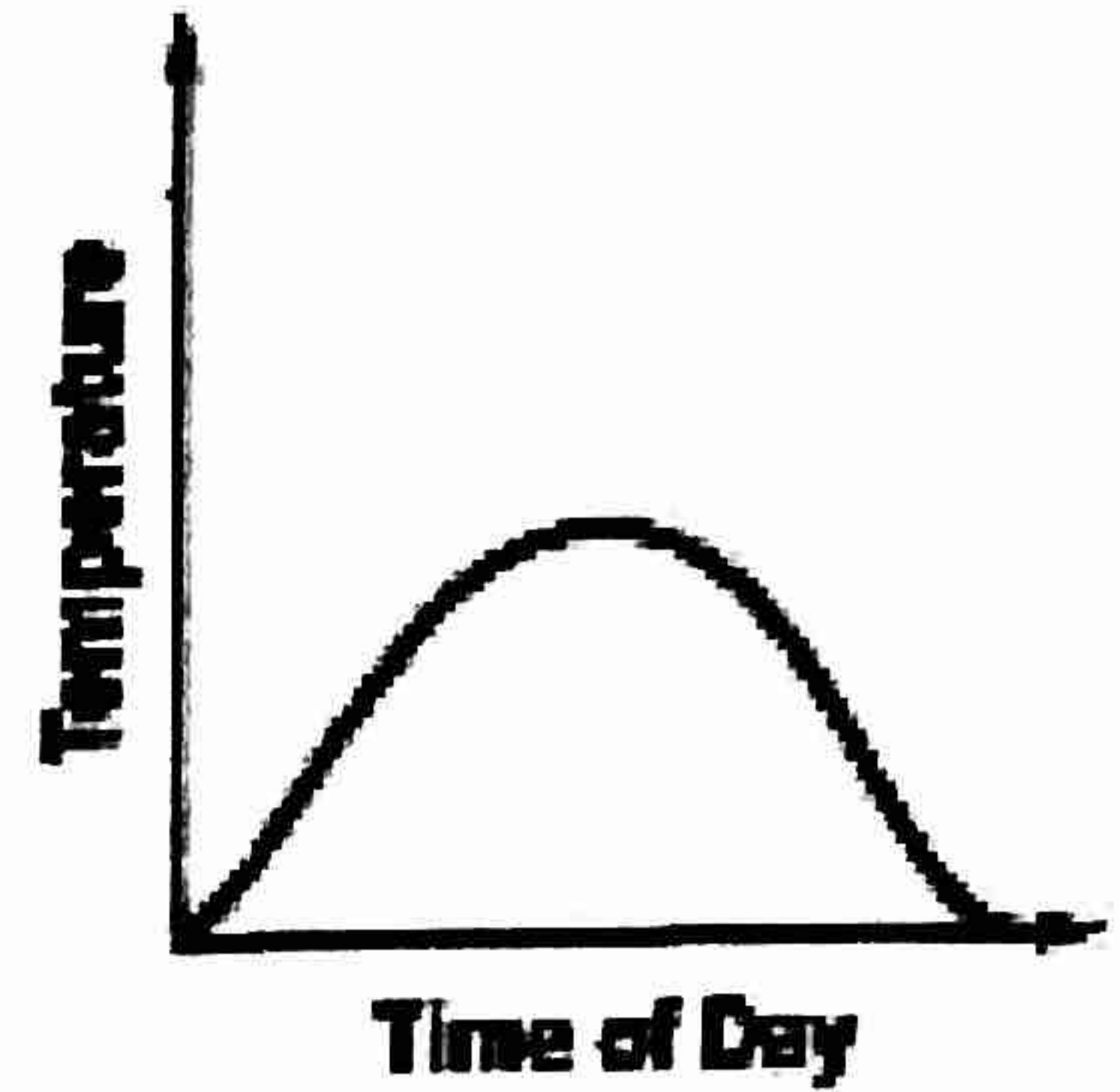
Distance from floor starts out high value. The ball falls to floor, bounces, rebounds straight back up to a height less than its drop. Repeated pattern until ball comes to rest.



Story!

D. The graph at the right displays the temperature throughout the day. Describe the change in temperature over time.

Over time, the temperature increases (not a constant rate) until it reaches the high temp. Then the temperature decreases as the day comes to an end



Linear - C.R.O.C.  
Nonlinear - NO C.R.O.C.

E. Tamar rides her bicycle at a steady rate. She coasts downhill which increases her speed at increasing rates. Sketch a qualitative graph to represent the situation.

\* not looking for distance

\* riding her bike at a steady rate... goes down a hill so her speed picks up as she continues down the hill

