

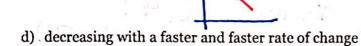
- Sketch a graph of a continuous function to fit each description.
  - a) always increasing with a faster and faster rate of change

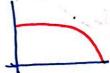


b) decreasing with a slower and slower rate of change, then increasing with a faster and faster rate of change

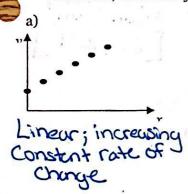


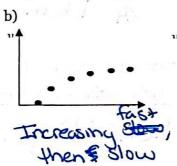
c) linear and decreasing

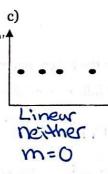


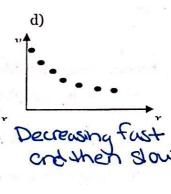


2) Describe each of these discrete function graphs using the words increasing, decreasing, linear, nonlinear, and rate of change.

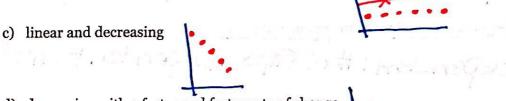




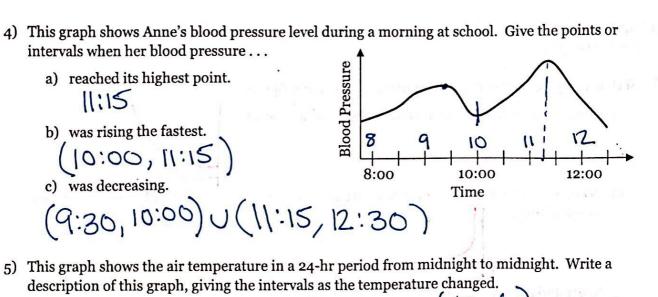


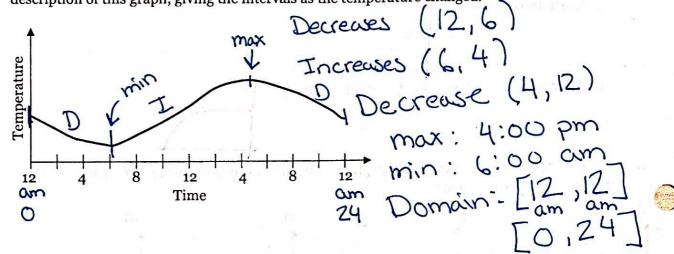


- 3) Sketch a discrete function graph to fit each description.
  - a) always increasing with a slower and slower rate of change
  - b) linear with a constant rate of change equal to zero



d) decreasing with a faster and faster rate of change





6) For each relationship identify the independent and dependent variables.

a) the mass of a spherical lollipop and the number of times it has been licked.

Independent: # of licks Dependent: mass

b) the number of scoops in an ice cream cone and the cost of the cone.

Dependent: Cost dependent: # of scoops

c) the distance a rubber band will fly and the amount you stretch it before you release it.

Dependent: distance independent: Stretch

d) the number of coins you flip and the number of heads.

Independent: # of frips Dependent: # of heads