6.5 Analyzing and Sketching Graphs
8.F.5

Goal Today's lesson is using graphs without numbers to show the relationship between quantities.

Do Now: Journal Activity 1 Page 137

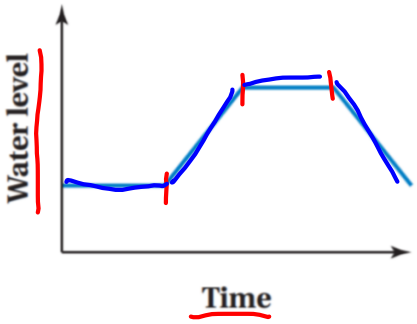
Homework: Worksheet

Complete these questions on your own using the graph, and then compare with your group.

a. How is this graph different from the other graphs you have studied?

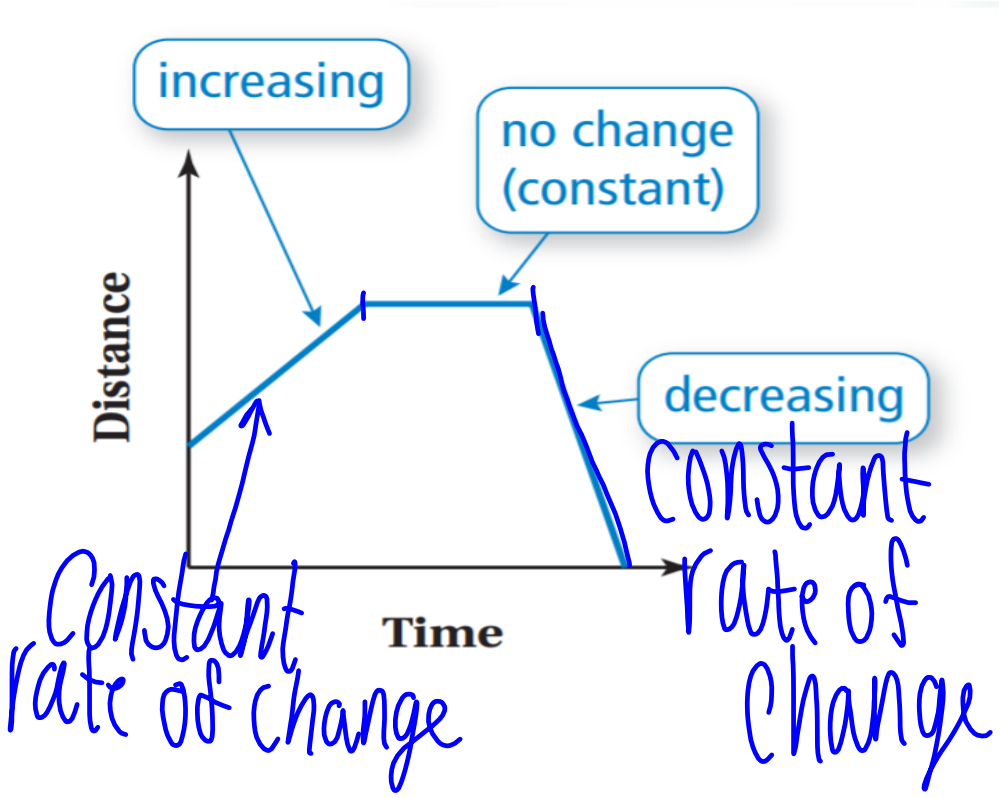
b. Write a short paragraph that describes how the water level changes over time.

c. What situation can this graph represent?

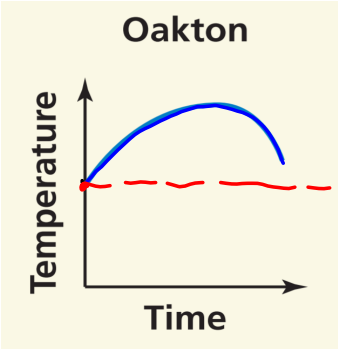


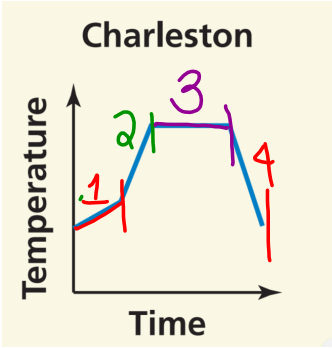
nonlinear
no scale

Graphs can show the relationship between quantities without numbers on the axes!



The graphs show the temperatures throughout a day in two cities. Describe the change in temperature in each city.

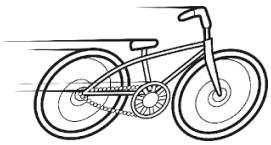




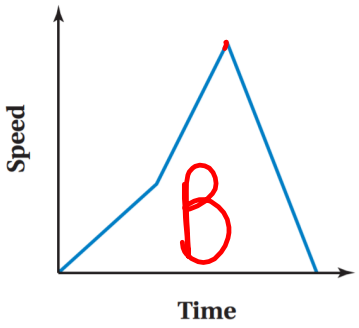
Temperature gradually increased then it eventually stayed the same. Finally, it gradually decreased to a little warmer than when it started.

1) Constant rate of change of the Temp
2) then a more rapid increase.
3) Temp remain the Same but then there
4) was a constat decrese in the temperature.

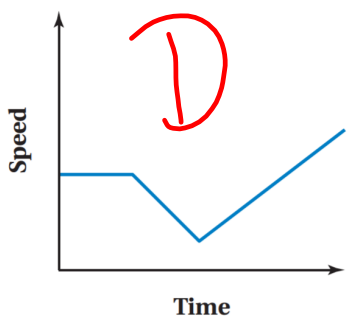
The graph represents you riding your bike. Let's interpret the situations!



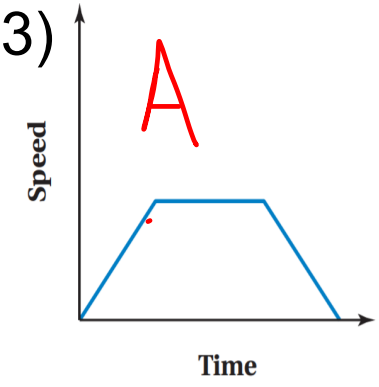
1)



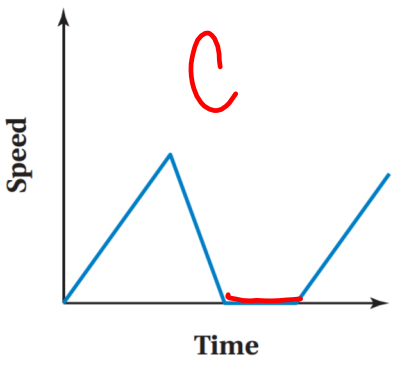
2)



3)

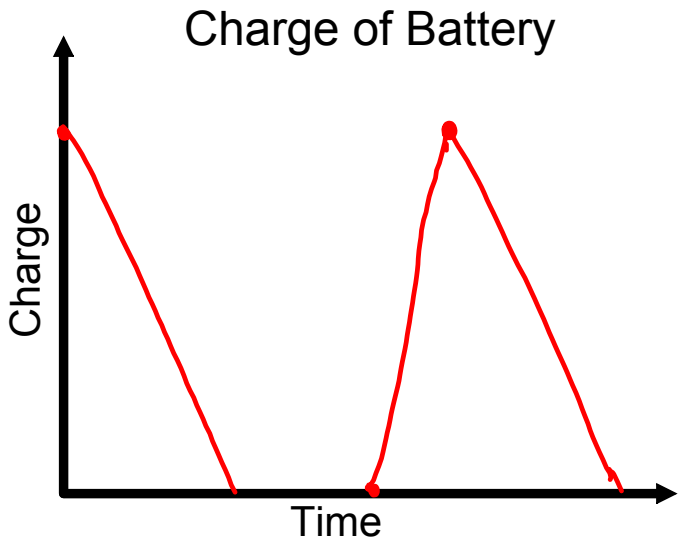


4)

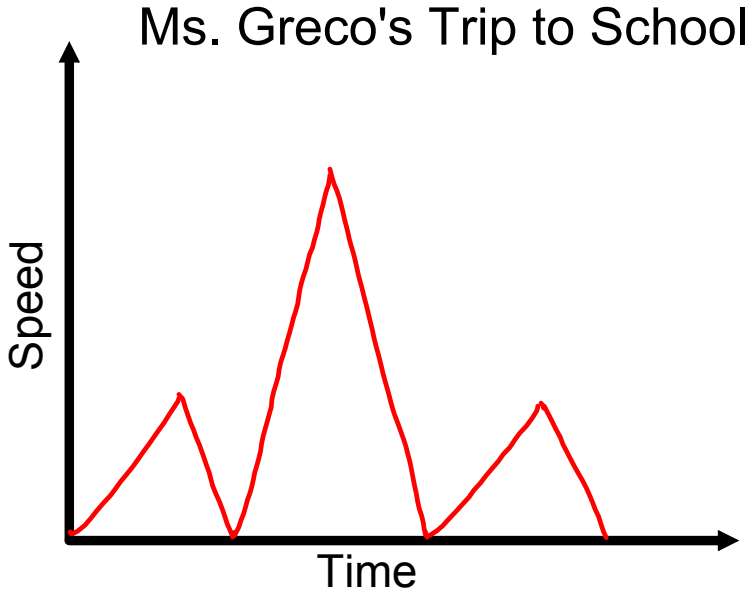


Now go to 138 and decide which graph matches a., b., c., and d.

Graph the situation: A fully charged battery loses its charge at a constant rate until it has no charge left. An hour later, you plug it in and recharge it fully. Then it loses its charge at a constant rate until it has no charge left.

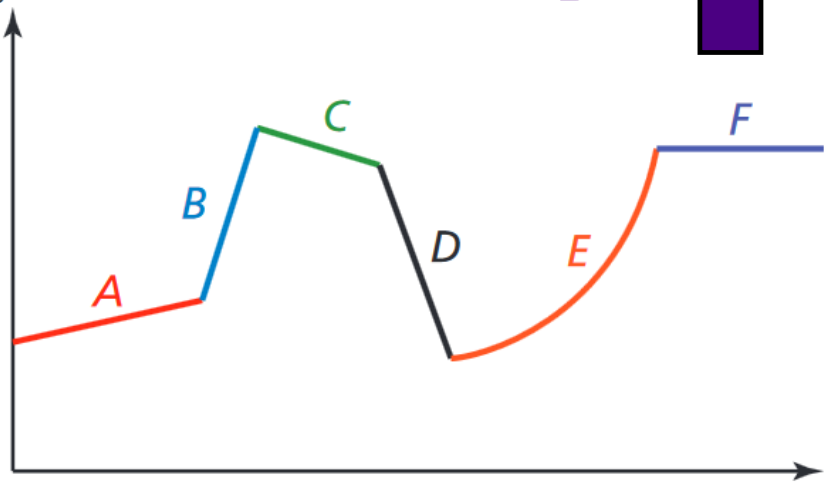


Ms. Greco leaves for school and walks towards her car. She then stops to get in the car. Once she is safely buckled, she drives to Van Wyck. She arrives at school and parks. Graph the situation!



MATCHING **Match the verbal description with the part of the graph it describes.**

1. stays the same — F
2. slowly decreases at a constant rate — C
3. slowly increases at a constant rate — A
4. increases at an increasing rate — E
5. quickly decreases at a constant rate — D
6. quickly increases at a constant rate — B



Wrap Up: Absent Guy

Discuss with your group what we learned about analyzing and sketching graphs today for that guy that is absent.