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Unit 2 Day 8: Beyond Positive and Negative

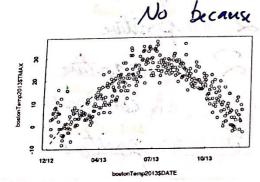
(Increasing, Decreasing, and Constant)

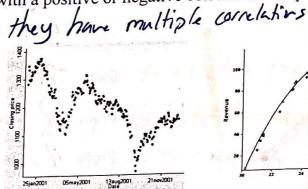
cocus Question: How do I describe a scatter plot that goes up and down?

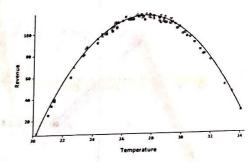
- A. Non-linear Graphs
 - 1. What did non-linear mean?
 - 2. Are the following graphs non-linear?

es

3. Can you describe them with a positive or negative correlation? Explain.







4. Sometimes we describe the parts of the graph individually. We focus on the values of the independent variable and describe what the dependent value is doing between each section of the independent values.

Remember we read a graph from left to right!

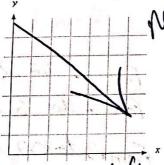
We use the terms <u>increasing</u>, <u>decreasing</u> and <u>constant</u>. Draw a picture of what you think each term means. Write a definition under each picture.

Increasing

When read from 1eff

to <u>right</u>, the DV is

Decreasing

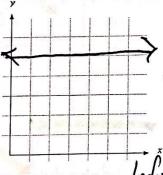


When read from _______

going down

, the DV is

Constant



When read from /eft

to <u>right</u>, the DV is

Constant

B. Intervals

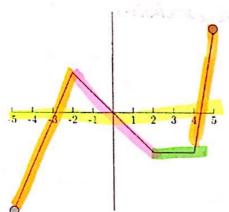
When a scatter plot can be divided into sections of increasing, decreasing, and constant, we divide the sections of the independent variable. So we are dividing up the x axis. This is because we read a graph from left to right. We then say what the DV is, doing on that section.

When numbers go forever to the right, we call that infinity: symbol ∞ .

When numbers go forever to the left we call that <u>infinity</u>: symbol — : symbol — .

Practice:

Give the intervals of increasing, decreasing, or constant. Remember, we read a graph from left to right.

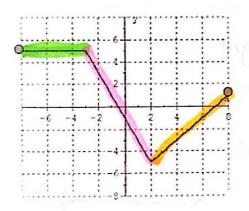


From $\frac{-5}{2}$ to $\frac{-2}{2}$ it is positive

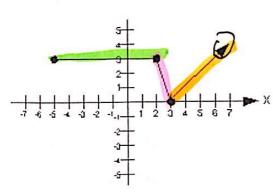
From $\frac{-2}{2}$ to $\frac{2}{2}$ it is megative

From $\frac{2}{2}$ to $\frac{4}{2}$ it is constant

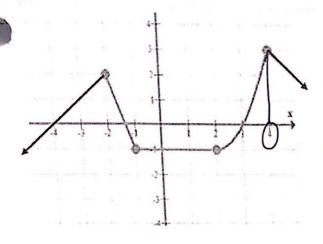
From 4 to 5 it is positive



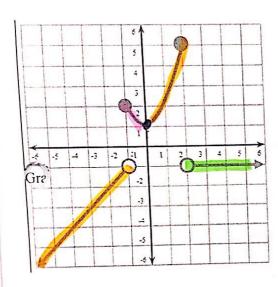
From -8 to -3 It is constant From -3 to 2 it is negative From 2 to 8 it is positive



From 2 to 2 it is constant From 2 to 3 it is regation From 3 to \in it is position



From - 20 to -2 it is positive From -2 to -1 it is negative From -1 to 2 it is constant From 2 to 4 it is positive From 4 to 00 it is negative

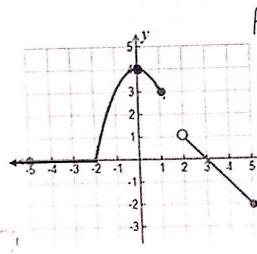


From - or to -1 it is positive

From - 1 to 0 it is negative

From 0 to 2 it is positive

From 2 to \in it is constant



From - 2 to 0 it is positive From 0 to 1 it is negative From 2 to 5 it is negative 5.x From 2 to 5 it is negative