Math 111 Problem Flowchart

TRANSLATE QUESTION TO ALL 3 LANGUAGES
(Graphical, English, and Functional Notation)

GIVEN TOTAL VALUES IN
A GRAPH OR TABLE
(such as TR/TC/DIST)

GIVEN INCREMENTAL OR RATE VALUES
(such as MR/MC/AS or AR/AC/ATS)

DIAGONAL LINE
QUESTIONS
(such as AR/AC/ATS)

SECANT LINE
QUESTIONS
(such as MR/MC/AS)

Make sure you understand what is given first. Does each point represent what is about to happen (over the next interval) or what previously happened (over the last interval)?

If the slope is given, draw a reference line and find the intersection.

If the slope is given, draw a reference line. then slide your ruler parallel to an interval of appropriate length.

Write down the definitions and formulas for the quantities involved and remember the big results from class.

If you are asked to find the slope, draw the line and use two points to get the slope.

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By adding up the increments, try making a table of total values.

To visualize the slopes of the diagonal lines, fix your ruler at the origin and rotate the ruler to various points on the graph.

To visualize the slopes of the secant lines, move your ruler from one interval to the next on the graph and compare slopes.

Once you have done the steps above, carefully read the question again. Read off the necessary values from the table or graph and answer the question.