Precalculus Lesson AP 3.1 2017

Determine a scenario for the data graphed on the reverse side. What CHARACTERISTIC is being measured? What units are being used? Label the horizontal and vertical axes by naming the CHARACTERISTIC being observed and the UNITS used for measuring.

1. Describe the scenario represented by your graph:

2. What are the units for the x-values of your graph? _____
3. What are the units for the y-values of your graph? _____
4. Draw a tangent line to the graph at each point (A – G).
5. Agree as a group on the slope of each tangent line. Enter those values here:

Point A:	m_{tan} = _____	Point E:	m_{tan} = _____
Point B:	m_{tan} = _____	Point F:	m_{tan} = _____
Point C:	m_{tan} = _____	Point G:	m_{tan} = _____
Point D:	m_{tan} = _____	Point H:	m_{tan} = _____

6. Graph the value of the SLOPE of the tangent line on the same axis system. Connect those values with a smooth curve.
7. What are the units on your slope values? _____
8. Use appropriate units to describe what is happening at each point below:

POINT A:

POINT B:

POINT D:

POINT E:

POINT H:

Describe another point of interest on your graph and explain your reasoning.