Modeling Functions--Graphing Initial Value and Rate of Change

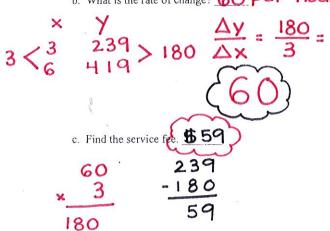
Big Ideas: Graphs can contain numbers too large or small to graph in detail--Initial Value (y-intercept) can still be found using significant points, tables and/or the knowledge that linear equations can take the slope-intercept form of: y = mx + b Example:

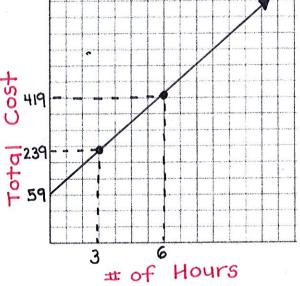
Ted needs a plumber. He called one up and found that they charge a service fee just to come out to his house. One the plumber is there, they then charge a set amount an hour.

To get an idea of pricing, Ted is told that: 3 hours will cost a total of \$239

6 hours will cost a total of \$419 a. Sketch a graph of this situation.

b. What is the rate of change 60 per hour





d. Write an equation to represent this situation: