

MPM1D

Rate of Change and Initial Value

Name: _____

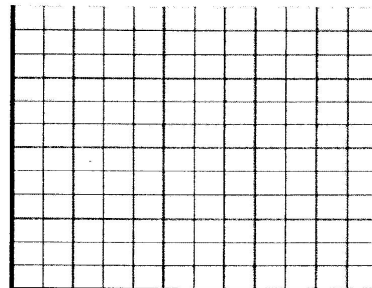
1) Bell Mobility offers a cell phone plan for \$40 a month plus \$0.10 cents per minute for long distance.

a) State an equation that represents this relationship. Don't forget to introduce the variables.

b) Complete a table of value for this relationship up to 200 minutes of long distance.

		(x, y)

c) Graph this relationship. Be sure to label all axes and use an appropriate scale.



d) Make a **rate triangle** to find the rate of change. Don't forget to state the rate of change with correct units. What does this rate represent in this situation?

e) What is the **initial value** in this relationship? Don't forget the correct units. What does the initial value represent in this situation?

f) Compare the **rate** and the **initial value** to the original equation. What do you notice?