**In-Class Activity**

Tom Thumb cannot get enough of the Internet. He has decided that he must upgrade from his current cell phone that does not text fast enough to either the new IPhone or the new Blackberry Storm. He is offered the following plans with each phone:

* IPhonatic offers a plan for the IPhone that charges a base fee of $55.00 for the first 2 hours, then $0.03 per minute thereafter.
* BlackBurried offers a plan for the Blackberry that charges a base fee of $45.00 for the first 3 hours, then $0.05 per minute thereafter.

1. How much does the Iphonatic plan charge for a total of 4 hours of texting?
2. How much does the BlackBurried plan charge for a total of 4 hours of texting?
3. Which plan would you suggest if Tom Thumb texts for 480 minutes? Justify your answer.
4. Is there a point at which it makes more sense to buy the IPhone? When does this occur?
5. Write a description that could be used by a student in your class to solve #4 or a similar problem. Explain your reasoning in addition to the process that you followed.