



3. Calculate the following for the bikers who travel at a constant speed. Again, be prepared to justify your answers.

(a) At what mile marker did they enter the trail?

(b) Come up with a formula for the mile marker passed after a given time.

(c) If they kept biking forever, would Murray ever pass the Bret? How do you know? If so, can you figure out exactly when?

(d) Suppose that Jemaine's stopwatch had broken down after mile marker 27, and he had biked at a constant speed of 18 miles per hour.

i. At what mile marker did Jemaine start?

ii. Come up with a general formula for the mile marker Jemaine passed after a given time.

iii. Will Jemaine ever pass Bret? Will he ever pass Murray? Answer first without doing any calculations. If he will pass one or both of them, find out exactly when.

4. Plot on a plane all the data points from the first page.

(a) Using your graph, how would you answer #1? Make sure to describe your answer in terms of our definition of a linear relationship.

(b) Answer all parts of #3 by using your graph. What do your answers mean on the graph? In particular, with part d), how do you interpret part i) on the graph?