

# Hickam Proof 4

## 5 point assignment – Due Friday

Name \_\_\_\_\_

### True Story

Three summers ago, I took my family on a cross-country adventure from Pulaski all the way to California and back. We drove a total of a little over 7000 miles in a 12 day period. If you ever get the chance to drive across the USA, do it, for there is nothing like it. I love it so much, I am considering doing it again, and from this desire to see the West again comes your next proof.

Assume that my Honda Accord will get an average of 28 miles to the gallon for my next Cross Country trip, and that the trip will be 7000 miles. Wear and tear (tires, oil, belts, etc.) on my car is about 14 cents per mile. Bet you kids never thought about the wear and tear on a car, did you! Assume that for this trip the average price of gas will be \$4.50 per gallon.

Another option besides taking my own car would be to rent a car, which will help me avoid the wear and tear on my car. To rent a car similar to my Honda, it will cost me \$790.46 for 12 days and that includes unlimited miles on the car. (Yes, I actually called Hertz and got a price when making this problem up.) However, the car will only get an average of 24 miles to the gallon instead of the 28 miles to the gallon my Honda Accord gets. Assuming that the trip will last 12 days like my last one, would it be cheaper to take my Honda Accord or rent a car? Remember to explain your reasoning and back it up with numbers.