Problem 3
Name:
(1) Search craigslist for a popular car type (e.g. Honda Civic). Randomly sample 16 vehicles from those listed (you may want to refine your search to a particular model or type of seller). Record the asking price, the mileage, and the age for each vehicle.
(a) Find a linear model for the cost as a function of the mileage. Remark on the rate of depreciation (including units).
(b) Find a linear model for the cost as a function of the age. Remark on the rate of depreciation (including units).
(c) Comment on which model seems to be a better predictor of cost (the one tied to age or the one based on mileage) - explain.
(d) Find an exponential model for the cost as a function of the mileage. Remark on the rate of depreciation (including units).
(e) Find an exponential model for the cost as a function of the age. Remark on the rate of depreciation (including units).
(f) Comment on which model seems to be a better predictor of cost (the one tied to age or the one based on mileage) - explain.
(g) Comment on which of the two models identified in parts ?? and ?? seems to be a better predictor of cost explain.

