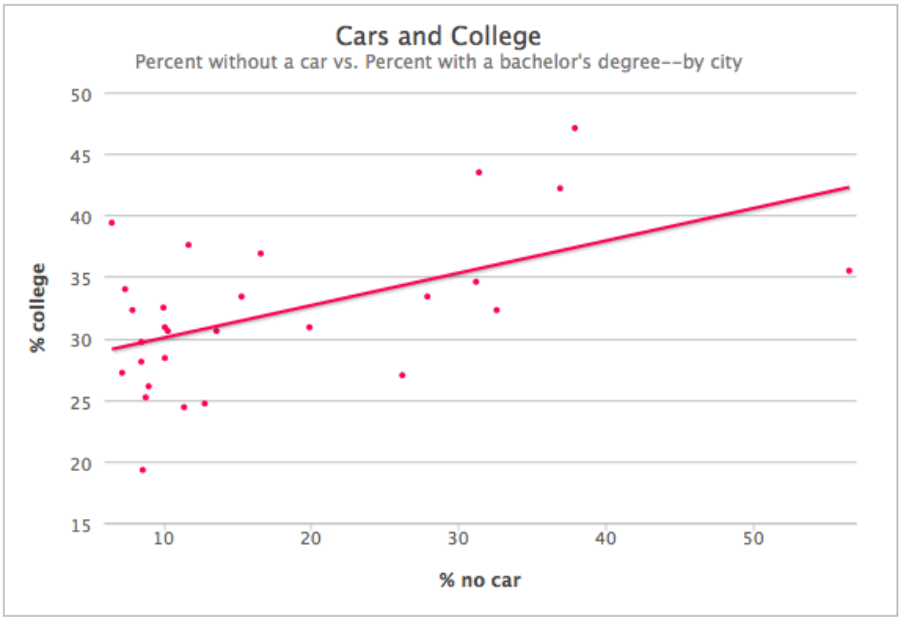
Quiz 10 **Name**_____

The following scatterplot showing the percentage of bachelor degree holders and the percentage of people not owning a car in several US cities.[1]



(a) In this scatterplot, which is the
   i. Explanatory variable?

   ii. Response variable?

(b) Check the equation that is closest to the equation of the regression line shown: (Assume $y = \%$ college and $x = \%$ no car.) *Check one*
_____ $y = 0.275x + 30$
_____ $y - 0.29 = 0.275x$
_____ $y = 27.5x + 29$
_____ $y = 0.275x + 27$
_____ $y = 27.5x + 2.75$

(c) Interpret the slope of the line in this context.

(d) Based on the scatterplot, mark each of the following statements as True (T) or False (F)
____If a mayor discourages car ownership, the percent of bachelor's degrees in the mayor's city will increase
____High car ownership corresponds to a low proportion of bachelor's degree holders
____"Green cities" attract college graduates
____There is a negative association between car ownership and bachelor's degrees

[1] http://www.theatlantic.com/business/archive/2014/01/why-do-the-smartest-cities-have-the-smallest-share-of-cars/283234/