1.

2.

3.

4. Consider the wine quality data in `table.b11` in the *MPV* package.

   (a) (1 point) List the variables (names of columns) in the `table.b11` data frame.

   (b) (5 points) Obtain a scatter plot of `Quality` versus `Aroma`, and overlay the line of best-fit, after assigning the relevant `lm()` object to `wine.lm`.

   (c) (3 points) Use your fitted line to predict the Quality of wine that has Aroma level 4.

   (d) (4 points) Use the `xyplot()` function in the *lattice* package to plot `Quality` versus `Aroma` for each value of `Region`. Include both the plotted points and a smoothed curve in each panel of this display, using `span=2`.

   (e) (2 points) Use the `xyplot()` function in the *lattice* package to plot `Quality` versus `Aroma` for each value of `Region`, and using `(Clarity < 1)` as the `group` variable. Include both the plotted points, coded as "0", if clarity is less than 1, and "1", if clarity equals 1, and a smoothed curve in each panel of this display. The plot should appear as below.