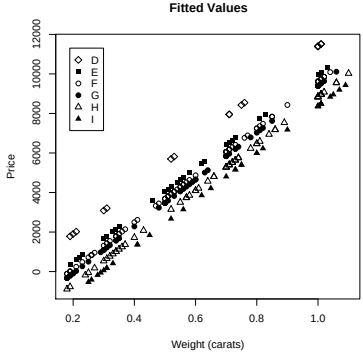
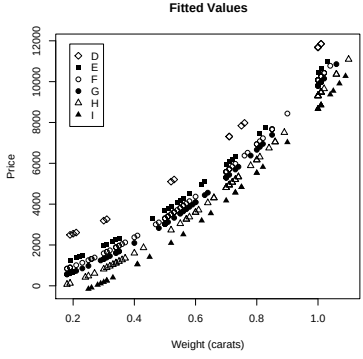
Exer 5.11 **[E/E105]**

The file `diamonds.csv` contains several variables relating to diamonds: their price, their weight (in carats), their color (which falls into several classes — D, E, F, G, H, I), and so on. The following several graphs show different models fitted to the data: price is the response variable and weight and color are the explanatory variables.

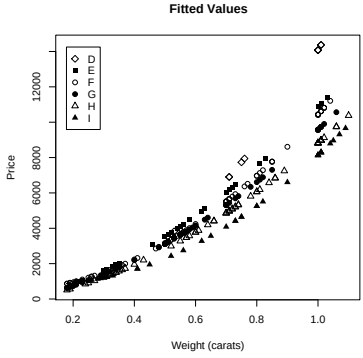
1



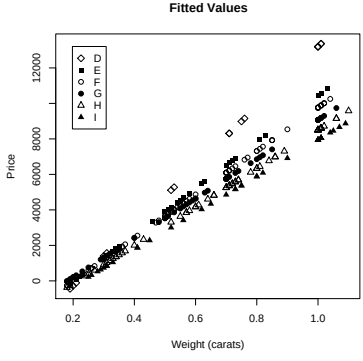
2



3



4



Which model corresponds to which graph?

1. `lm( price~carat + color, data=diamonds)`
   Which graph? 1 2 3 4 Exer 5.11-1
2. `lm( price~carat * color, data=diamonds)`
   Which graph? 1 2 3 4 Exer 5.11-2
3. `lm( price~poly(carat,2) + color, data=diamonds)`
   Which graph? 1 2 3 4 Exer 5.11-3
4. `lm( price~poly(carat,2) * color, data=diamonds)`
   Which graph? 1 2 3 4 Exer 5.11-4