1. Question
   1. P(Y | X) =
   2. We assume for Naïve Bayes that each variable in the set X is independent of the others. This way, instead of calculating one combined result on all categories for all possible combinations, we can calculate the individual probabilities of each category and multiply them together .
   3. D
   4. For the Yelp data we need to estiamate P(GFK), P(GFG | GFK), P(City | GFK), P(State | GFK), P(Stars | GFK), P(Open | GFK), P(alcohol | GFK), P(Noise | GFK), P(Attire | GFK), P(Price | GFK), P(delivery | GFK), P(Waiter | GFK), P(smoking | GFK), P(OS | GFK), and P(Caters | GFK). That is a total of 15 parameters. Within each parameter the probability of each possible value compared to a true or false value of goodForGroups must be calculated.