Hypothesis for each question:

1. Are arrests in Bronx and Brooklyn proportional to their populations?
   1. H0: Arrests in the Bronx and Brooklyn are proportional to their populations
   2. H1: Arrests in the Bronx and Brooklyn are not proportional to their populations
2. Are there more arrests on Federal holidays?
   1. H0: There is no difference in the number of arrests on federal holidays and non-federal holidays
   2. H1: There is a difference in the number of arrests on federal holidays and non-federal holidays
3. Is there an association between gender and race (Black vs. Asian) in the population of Queens?
   1. H0: Sex and race (Black/Asian) are independent. The proportion of males and females is the same across the racial groups.
   2. H1: Sex and race (Black/Asian) are dependent. The proportion of males and females differs across the racial groups.