Week 3 - Check Your Understanding

1. Multiple linear model cannot incorporate a categorical response.

   *a. True

   b. False

2. Multiple linear regression is a special case of generalized linear model with a link function being the identity function.

   *a. True

   b. False

3. A normal distribution is a special case of exponential distribution.

   *a. True

   b. False

4. The least squares method can be applied to solve for optimal estimations of model parameters for any generalized linear model.

   a. True

   *b. False

5. The maximum likelihood method can be used to solve for parameter estimations in linear regression.

   *a. True

   b. False

6. The sum squares decomposition of TSS = RSS + Reg SS also holds in generalized linear model.

   a. True

   *b. False

7. We can use AIC and BIC to decide how many predictors to include in the generalized linear model.

   *a. True

   b. False

8. In logistic regression, the response mean can be interpreted as the probability that the response equals one or zero.

   *a. True

   b. False

9. One wants to model a counting response, she/he should use

   a. Probit Regression

   *b. Poisson Regression