1. If sample mean plots look essentially parallel, we can intuitively conclude there is an interaction between the two factors.

True or false, give a reason why?

1. When we carry out a chi-square test of independence, in the alternative hypothesis we state that the two classifications are statistically independent.

True or false, give a reason why?

1. The slope of the simple linear regression equation represents the average change in the value of the dependent variable per unit change in the independent variable (X).

True or false, give a reason why?

1. In a multiple regression analysis, if the normal probability plot exhibits approximately a straight line, then it can be concluded that the assumption of normality is not violated.

True or false, give a reason why?