Q2: Why do we care about the hypothesis:

Ho: $\beta_1 = \beta_2 + \beta_3$ Vs. Hi: $\beta_1 > \beta_2 + \beta_3$?

Is there any real-life application?

A2: Say we have 3 variables in total: X_1, X_2, X_3 .

case 1: $X_{11}=1$, $X_{12}=X_3=0$, $\hat{Y}_1=\beta_1$ case 2: $X_{21}=0$, $X_{22}=X_3=1$, $\hat{Y}_2=\beta_2+\beta_3$ we want to compare \hat{Y}_1 and \hat{Y}_2 .