Hypothesis Testing of restricted and full model

```
> model_restricted <- lm(y~x4+x5, data=s_data_frame)
> summary(model_restricted)
call:
lm(formula = y \sim x4 + x5, data = s_data_frame)
Residuals:
    Min
            10 Median
-1.56123 -0.49604 0.09069 0.45717 0.98057
Coefficients:
          Estimate Std. Error t value Pr(>|t|)
(Intercept) -6.3351 0.6009 -10.543 2.23e-09 ***
          4.1542 1.7104 2.429 0.0252 *
x5
          15.0160 2.6057 5.763 1.49e-05 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.6875 on 19 degrees of freedom
Multiple R-squared: 0.9584, Adjusted R-squared: 0.954
F-statistic: 218.9 on 2 and 19 DF, p-value: 7.584e-14
> regq_1<-lm(y\sim x1+x2+x3+x4+x5, data=s_data_frame)
> summary(regg_1)
call:
lm(formula = y \sim x1 + x2 + x3 + x4 + x5, data = s_data_frame)
Residuals:
             10 Median
-1.2610 -0.5373 0.1355 0.5120 0.8611
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) -6.5122 0.9336 -6.976 3.13e-06 ***
            1.9994
                      2.5733 0.777 0.44851
x2
            -3.6751
                      2.7737 -1.325 0.20378
х3
            2,5245 6,3475 0,398 0,69610
            5.1581 3.6603 1.409 0.17791
           14.4012 4.8560 2.966 0.00911 **
signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1
Residual standard error: 0.7035 on 16 degrees of freedom
Multiple R-squared: 0.9633, Adjusted R-squared: 0.9519
F-statistic: 84.07 on 5 and 16 DF. p-value: 6.575e-11
```