```
Model: Y = b0 + b1 X1 + b2 X2 + b3 X3
   > LM5 = lm ( y ~x1 + x2 + x3 )
   > summary(LM5)
   Call:
   lm(formula = y ~x1 + x2 + x3)
   Residuals:
                    10 Median
                                         3Q
        Min
   -3.7263 -1.6111
                         0.3923 1.4656
                                              4.1277
   Coefficients:
                   Estimate Std. Error t value Pr(>|t|)
    (Intercept) 117.085
                                   99.782
                                               1.173
                                                           0.258
                                     3.016 = 1.437 \text{ } 1 0.170

2.582 = 1.106 \text{ } 2 0.285
   x1 \mid X_1, X_3
                       4.334
                                                                     T_3^2 = \left[\frac{\hat{\beta}_3}{SE(\hat{\beta}_3)}\right]^2 = \frac{SSR(X_3|X_1,X_2)/1}{MSE(X_1,X_2,X_3)} = \frac{11.55}{6.15}
                                                 .106 (12), 0.285
   x2 | X1, X3
                     -2.857
                     -2.186
   x3 | X1, X2
   Residual standard error: 2.48 on 16/degrees of freedom
   Multiple R-Squared: 0.8014, Adjusted R-squared: 0.7641
   F-statistic: 21.52 on 3 and 16 DF, (p-value: \lambda.343e-06)
                         1.437 7 59.278
   > anova(LM5)
   Analysis of Variance Table
                                          (-1.370)^2 = 1.877
   Response: y
                Df Sum Sq Mean Sq F value Pr(>F)
1 352.27 352.27 67.2768 1.131e-06 ***
   x1
                                                                                  N.B: (-1.106)2= 1.2242.
   x2 | X
                    33.17
                                33.17 5.3931
                                                    0.03373 *
                    11.55 [11.55] [1.8773]
   x3 | X1, X2
                                                    0.18956
                                                                                 \left[\frac{\widehat{\beta}_{2}}{SE(\widehat{\beta}_{2})}\right]^{2} = \frac{SSR(X_{2}|X_{1},Y_{3})/1}{MSE(X_{1},Y_{2},Y_{3})}
                                   - 55R(X3|X1,X2)/j
   > LM6 = lm (y / x3 + x1 + x2)
> anova(LM6)
   Analysis of Variance Table
                                                                               =\frac{7.53}{6.15}=1,2242
   Response: y
                Df Sum Sq Mean Sq F value
                                                      Ær(>F)
                 1 10.05 10.05 1.6343
                                                      0.2193
   x1 | X3
                  1 379.40 379.40 61.6886 /7.034e-07 ***
                      7.53
                               7.53 1.2242
                                                      0.2849
   x2 | X3, X1
    Residuals 16
                                 \SSR(X2 |X1,X3)/1
rounding
    evor
                                                                    T_1^2 = \frac{\left(\beta_1\right)^2}{\left(SE(\beta_1)\right)^2} = \frac{SSR(X_1|X_2,X_3)/1}{MSE(X_1,X_2,X_3)}
    > LM7 = lm (y ~x3 + x2 + x1)
   > anova(LM7)
    Analysis of Variance Table
                                                                          = \frac{12.70}{6.15} = 2.0657
   Response: y
                Df Sum Sq Mean Sq F value
                                                      Pr(>F)
                                10.05 1.6343
                                                      0.2193
                  1 10.05
   x3
                                                                          N.B. (1, 437) = 2.0657 ...
                  1 374.23
                               374.23 60.8471/7.684e-07 ***
   x2 | Y3
                              12.70 2.0657
                 1 12.70
                                                      0.1699
   x1 | x3, x2
   Residuals 16 98.40
                              ₽ 6.15
                                SSR(X1/X2,X3)/1
```