

ANALISIS REGRESI LINIER SEDERHANA

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	19.709	7.592		2.596	.012
xtotal	.942	.153	.660	6.152	.000

a. Dependent Variable: ytotal

$$Y = a + bx \text{ atau } Y = 19.709 + (0.942 \cdot 51) = 67.751$$

UJI F

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	932.807	1	932.807	37.843	.000 ^b
Residual	1207.820	49	24.649		
Total	2140.627	50			

a. Dependent Variable: ytotal

b. Predictors: (Constant), xtotal

$$F_{\text{tabel}} = df_1 = k - 1$$

$$df_2 = n - k$$

$$df_1 = 2 - 1 = 1$$

$$df_2 = 51 - 2 = 49$$

$$f_{\text{tabel}} = 4.04$$

Jadi, $f_{\text{hitung}} > f_{\text{tabel}} = \text{terdapat pengaruh positif}$

$$37.843 > 4.404 = \text{terdapat pengaruh positif}$$

Uji signifikansi (Uji t)

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
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xtotal	.942	.153	.660	6.152	.000

a. Dependent Variable: ytotal

Ttabel = $51 - 2 = 49$

= 1.676

Thitung = 6.152

Thitung > ttabel = $6.152 > 1.676$ = (lihat tesis jey dan cara tulis si tami)

Koefisien korelasi

Correlations

		ytotal	xtotal
Pearson Correlation	ytotal	1.000	.660
	xtotal	.660	1.000
Sig. (1-tailed)	ytotal	.	.000
	xtotal	.000	.
N	ytotal	51	51
	xtotal	51	51

Nilai korelasi = 0.660

Koefisien determinasi

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.660 ^a	.436	.424	4.965

a. Predictors: (Constant), xtotal

b. Dependent Variable: ytotal

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$$KD = 0.436 = 43,6\%$$

Artinya variabel X mempengaruhi variabel Y sebesar 43.6% dan sisanya dipengaruhi variabel lain yang tidak dibahas sebesar 53.4%

UJI LINIERITAS

ANOVA Table

		Sum of Squares	df	Mean Square	F	Sig.
ytotal * xtotal	(Combined)	1240.163	14	88.583	3.541	.001
	Between Groups	932.807	1	932.807	37.293	.000
	Linearity					
	Deviation from Linearity	307.356	13	23.643	.945	.520
	Within Groups	900.464	36	25.013		
Total		2140.627	50			

NILAI SIGNIFIKAN = 0.520

NILAI SIGNIFIKAN > 0.05 = LINIER

JADI $0.520 > 0.05 =$ LINIER

UJI NORMALITAS

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		51
Normal Parameters ^{a,b}	Mean	0E-7
	Std. Deviation	4.91491697
	Absolute	.094
Most Extreme Differences	Positive	.084
	Negative	-.094
Kolmogorov-Smirnov Z		.669
Asymp. Sig. (2-tailed)		.763

a. Test distribution is Normal.

b. Calculated from data.

Nilai signifikan > 0.05 = berdistribusi normal

$0.763 > 0.05 =$ NORMAL

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UJI HOMOGENITAS

Test of Homogeneity of Variances

ytotal

Levene Statistic	df1	df2	Sig.
1.954	11	36	.064

X ke Y

Nilai signifikan > 0.05

0.064 > 0.05 artinya data variabel Y berdasarkan variabel X mempunyai varian yang sama.