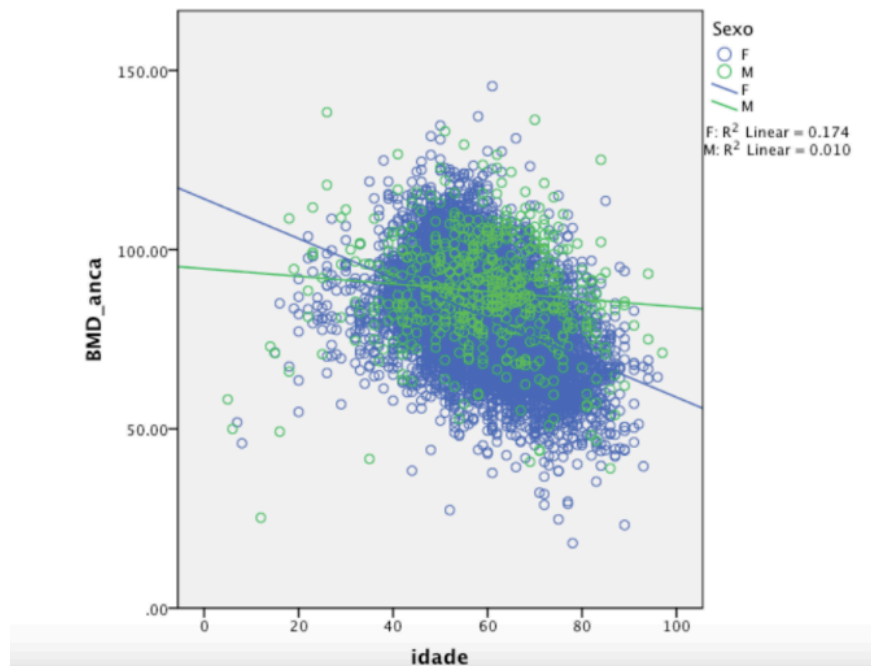


Consider the following scatterplot representing the association between age and hip bone mineral density, for each sex. The lines represent the regression lines for each gender (F - Female; M - Male):



The following five tables (A, B, C, D and E) are possible results of a model regression involving the variables bone mineral density, weight and gender.

Indicate which table is compatible with the scatterplot and justify your choice.

**A**

**Parameter Estimates**

Dependent Variable: BMD\_anca

Parameter	B	Std. Error	t	Sig.
Intercept	94.683	2.218	42.694	.000
[sex=1]	19.476	2.341	8.319	.000
[sex=2]	0 <sup>a</sup>	.	.	.
idade	-.106	.036	-2.922	.003
[sex=1] * idade	-.447	.038	-11.644	.000
[sex=2] * idade	0 <sup>a</sup>	.	.	.

a. This parameter is set to zero because it is redundant.

**B**

**Parameter Estimates**

Dependent Variable: BMD\_anca

Parameter	B	Std. Error	t	Sig.
Intercept	94.683	2.218	42.694	.000
[sex=1]	19.476	2.341	8.319	.000
[sex=2]	0 <sup>a</sup>	.	.	.
idade	-.106	.036	-2.922	.003
[sex=1] * idade	.447	.038	-11.644	.000
[sex=2] * idade	0 <sup>a</sup>	.	.	.

a. This parameter is set to zero because it is redundant.

**C**

**Parameter Estimates**

Dependent Variable: BMD\_anca

Parameter	B	Std. Error	t	Sig.
Intercept	94.683	2.218	42.694	.000
[sex=1]	-19.476	2.341	8.319	.000
[sex=2]	0 <sup>a</sup>	.	.	.
idade	-.106	.036	-2.922	.003
[sex=1] * idade	-.005	.038	-11.644	.000
[sex=2] * idade	0 <sup>a</sup>	.	.	.

a. This parameter is set to zero because it is redundant.

**D**

**Parameter Estimates**

Dependent Variable: BMD\_anca

Parameter	B	Std. Error	t	Sig.
Intercept	94.683	2.218	42.694	.000
[sex=1]	19.476	2.341	8.319	.000
[sex=2]	0 <sup>a</sup>	.	.	.
idade	.106	.036	-2.922	.003
[sex=1] * idade	-.005	.038	-11.644	.893
[sex=2] * idade	0 <sup>a</sup>	.	.	.

a. This parameter is set to zero because it is redundant.

**E**

**Parameter Estimates**

Dependent Variable: BMD\_anca

Parameter	B	Std. Error	t	Sig.
Intercept	94.683	2.218	42.694	.000
[sex=1]	19.476	2.341	8.319	.000
[sex=2]	0 <sup>a</sup>	.	.	.
idade	-.106	.036	-2.922	.003
[sex=1] * idade	-44.700	.038	-11.644	.000
[sex=2] * idade	0 <sup>a</sup>	.	.	.

a. This parameter is set to zero because it is redundant.