Quiz 1: Simple Linear Regression

* Required

1.	What is your email? *	

2. Which of the labeled points would have the biggest impact on the slope of a least-squares fitted line estimated from the data in Figure 1? *

Mark only one oval.

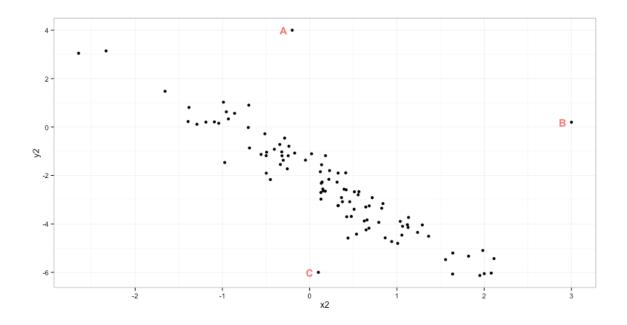
	point	Α
	Ponit	, ,

point B

point C

Impossible to tell.

Figure 1



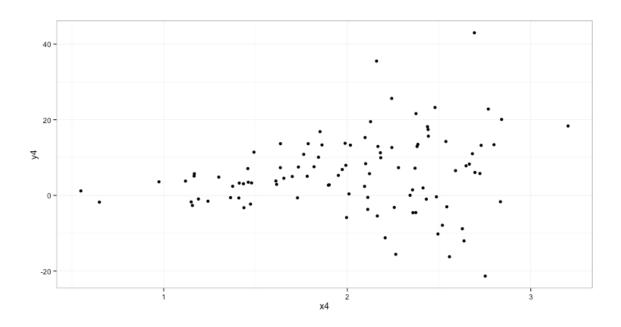
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3.	What assumption are you concerned about being violated with the data in Figure 2? *
	Mark only one oval.
	A2: Unbiased errors: E[εί xi] = E[εί] = 0
	A3: Uncorrelated errors: cov (εi , εj) = 0 for i ≠ j .
	A4: Constant variance: Var [vi xi] = σ 2

Figure 2

Looks fine to me.



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4.	The residual for point A is calculated by drawing a line through point A that is perpendicular to the fitted regression line. * Mark only one oval.
	TRUE
	FALSE
5.	y = b1*log(x) is a linear model. * Mark only one oval.
	TRUE
	FALSE

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6. Which of the variables in the mlb11 dataset from OpenIntro lab 7 had the highest R^2 value (or correlation) with the "runs" variable? *
Mark only one oval.
at_bats
hits
homeruns
bat_avg
strikeouts
stolen_bases
wins
new_onbase
new_slug
new_obs
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