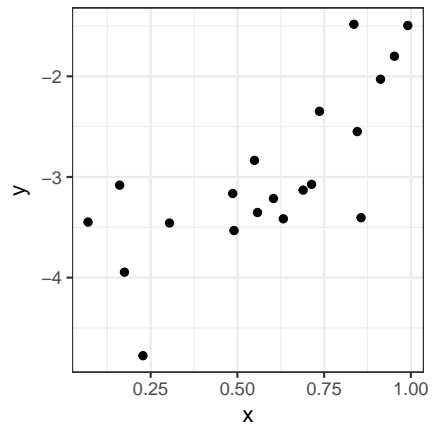
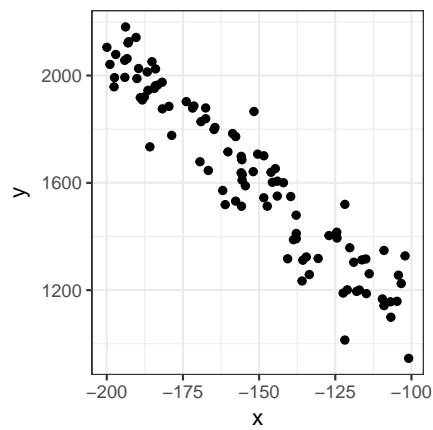


1. For each of the plots below, guess the sample intercept and the sample slope.

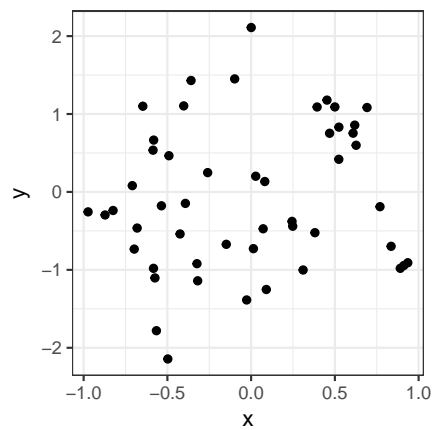
(a) Plot 1



(b) Plot 2



(c) Plot 3



2. Provide interpretations for the sample intercepts and sample slopes in the context of the problems given. When discussing regression analyses, we typically say “ran a regression of y (response) on x (explanatory).”
 - (a) Pioneer ran a regression of corn yield (bushels per acre) on fertilizer rate (pounds per acre). They found a sample intercept of 80 and a sample slope of 0.5.
 - (b) A marketing company ran a regression of the daily sales (\$) on the daily expenditure (\$) on youtube advertising. They found a sample intercept of -100 and a sample slope of 2.
 - (c) A consulting firm is running an efficiency study so run a regression of the amount (\$) of sales attributable to each sales person in a one week period on the number of meetings each sales person has with their manager. They found a sample intercept of 10,000 and a sample slope of -1,000.