## 1. Problem

Using the data provided in regression.csv estimate a linear regression of y on x and answer the following questions.
(a) x and y are not significantly correlated / y increases significantly with $\mathrm{x} / \mathrm{y}$ decreases significantly with x
(b) Estimated slope with respect to x :

## Solution



To replicate the analysis in R :

## \#\# data

d <- read.csv("regression.csv")
\#\# regression
$\mathrm{m}<-\operatorname{lm}(\mathrm{y} \sim \mathrm{x}$, data $=\mathrm{d})$
summary (m)
\#\# visualization
plot ( y ~ x , data $=\mathrm{d}$ )
abline (m)

