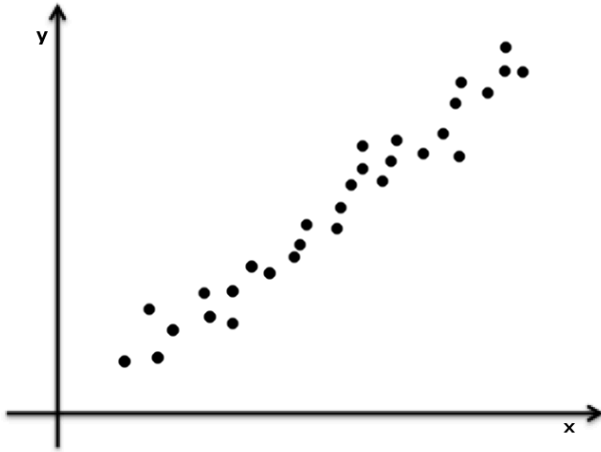
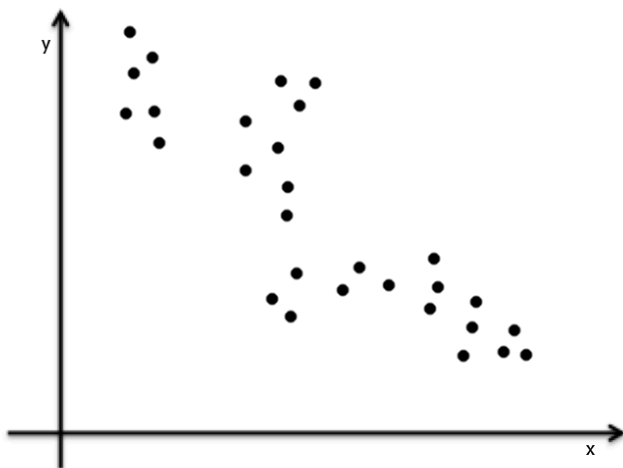


Estimating 'r' scores

1. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



2. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below

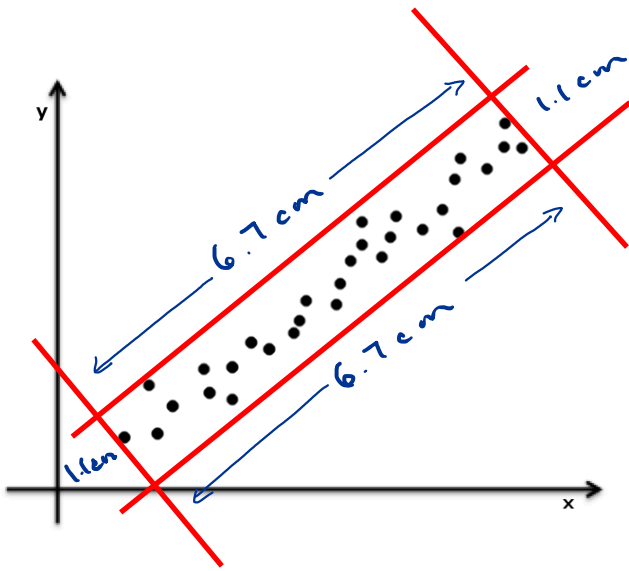


Estimating 'r' scores

$$r = 1 - \frac{\text{SHORT SIDE}}{\text{LONG SIDE}}$$

- ANSWER IS POSITIVE IF THE LINE TRENDS UPWARD
- ANSWER IS NEGATIVE IF THE LINE TRENDS DOWNWARD.

1. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



$$r = 1 - \frac{\text{SHORT}}{\text{LONG}}$$

$$= 1 - \frac{1.1}{6.7}$$

$$= 1 - 0.164$$

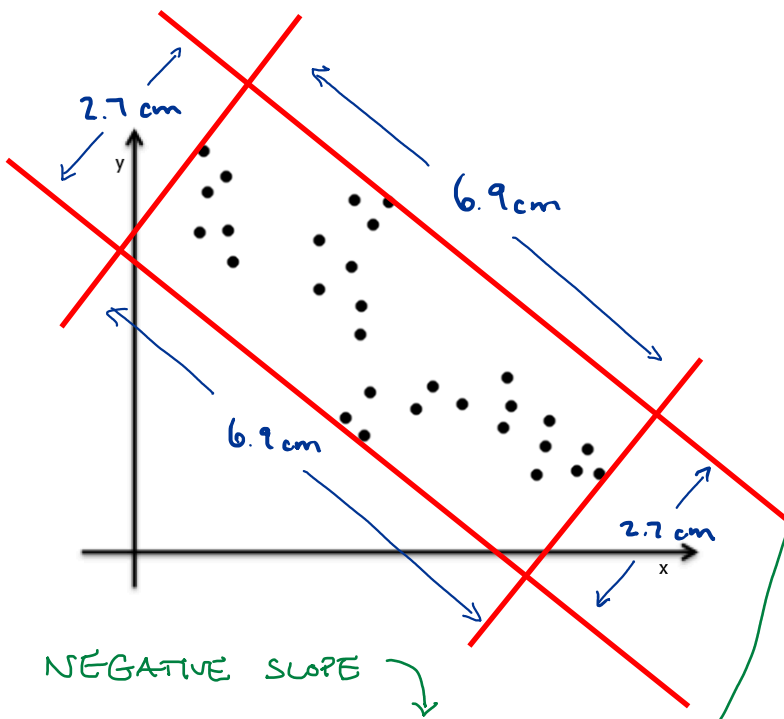
$$= 0.836$$

$$r \approx 0.84$$

POSITIVE SLOPE
↓
ANSWER IS POSITIVE.

ACCEPT VALUES FROM:
0.79 to 0.89

2. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



$$r = 1 - \frac{\text{SHORT}}{\text{LONG}}$$

$$= 1 - \frac{2.7}{6.9}$$

$$= 1 - 0.391$$

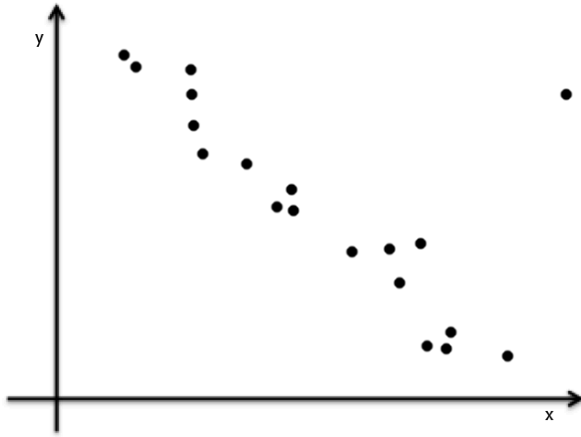
$$= 0.609$$

$$r \approx -0.61$$

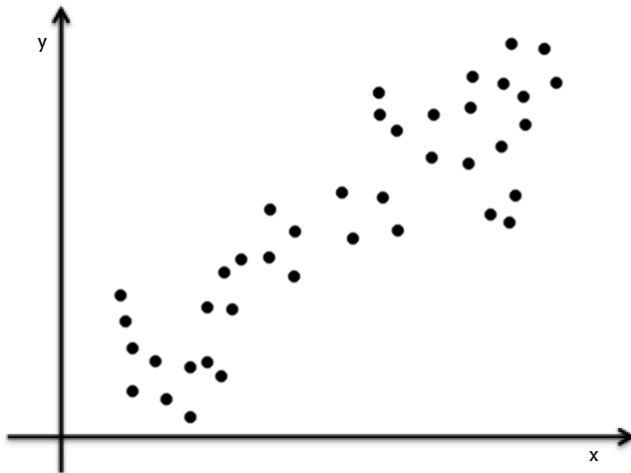
NEGATIVE SLOPE
↓
ANSWER IS NEGATIVE.

ACCEPT VALUES FROM:
-0.56 to -0.66

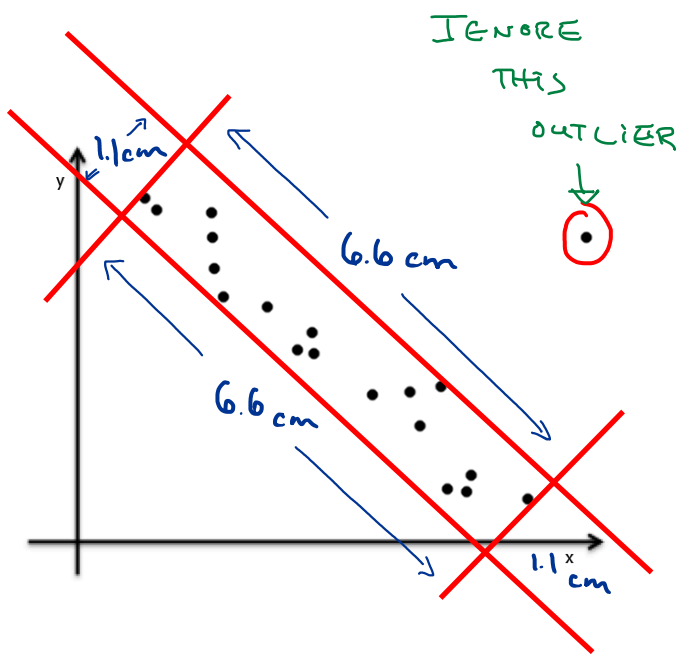
3. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



4. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



3. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



IGNORE THIS OUTLIER

$$r = 1 - \frac{\text{SHORT}}{\text{LONG}}$$

$$= 1 - \frac{1.1}{6.6}$$

$$= 1 - 0.1\bar{6}$$

$$= 0.8\bar{3}$$

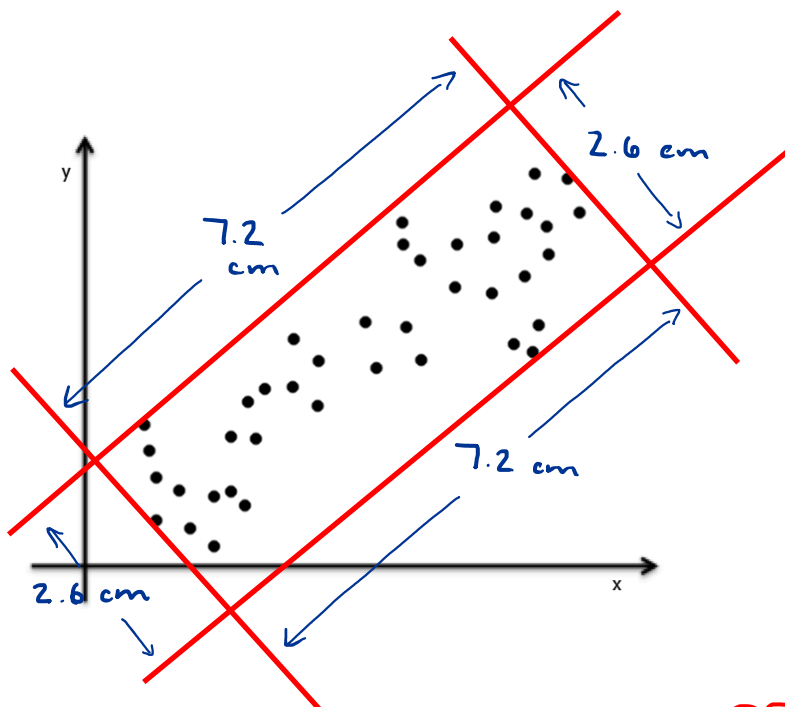
$$r \approx -0.83$$

NEGATIVE SLOPE,
ANSWER IS NEGATIVE

ACCEPT VALUES FROM:

-0.78 to -0.88

4. Estimate the linear correlation coefficient ('r' score) for the scatter-plot shown below



$$r = 1 - \frac{\text{SHORT}}{\text{LONG}}$$

$$= 1 - \frac{2.6}{7.2}$$

$$= 1 - 0.361$$

$$= 0.638$$

$$r \approx 0.64$$

POSITIVE SLOPE,
ANSWER IS POSITIVE

ACCEPT VALUES FROM:

0.59 to 0.69