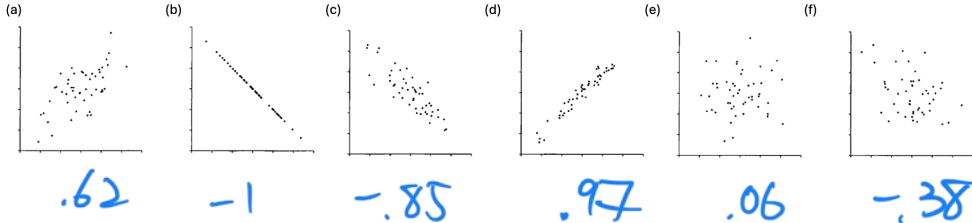


# Correlation Coefficients

The figure below shows six scatter diagrams for hypothetical data. The correlation coefficients, given in scrambled order, are:

$-0.85$ ,  $-0.38$ ,  $-1.00$ ,  $0.06$ ,  $0.97$ ,  $0.62$ .

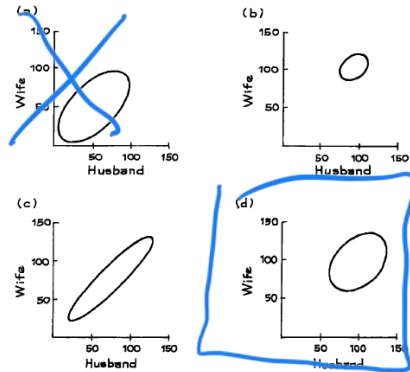
Match each scatter diagram with its corresponding correlation coefficient.



# Husband Wife Example

A study of the IQs of husbands and wives obtained the following results:

- $\mu_X = 100$  (husbands)
- $\mu_Y = 100$  (wives)
- $\sigma_X = 15$  (husbands)
- $\sigma_Y = 15$  (wives)
- $\rho_{XY} = 0.6$



Which scatter diagram matches these data? Briefly explain why you reject the others.