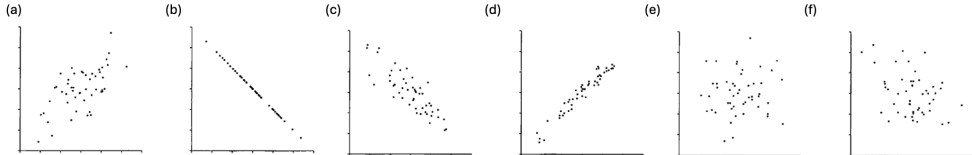


Correlation Coefficients

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 .

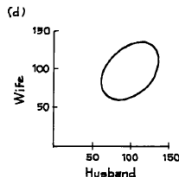
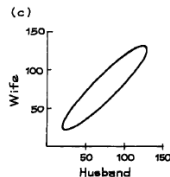
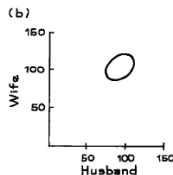
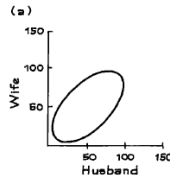
Match each scatter diagram with its corresponding correlation coefficient.



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.