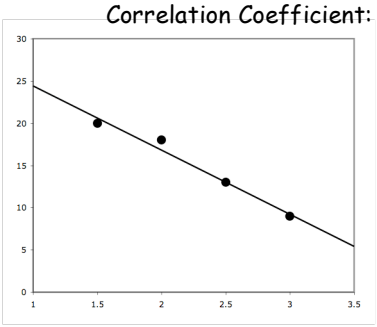
Name

SHOW AS MUCH WORK AS POSSIBLE BECAUSE YOU MAY RECEIVE PARTIAL CREDIT FOR THE WORK YOU DO IF YOUR ANSWER IS INCORRECT.

1. For each of the following bivariate data sets:
   - draw a scatter plot
   - draw a freehand regression line
   - choose the regression equation and correlation coefficient that **best** describes the relationship between the two variables

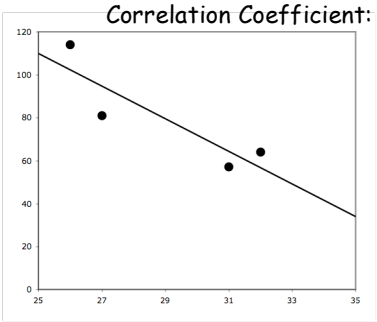
A. Equation: $y = -7.6x + 32$ Correlation Coefficient: **-0.99**

x	1.5	2.0	2.5	3.0
y	20	18	13	9



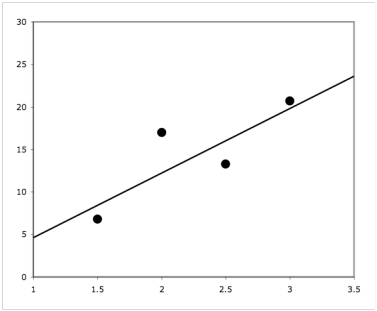
B. Equation: $y = -7.6x + 300$ Correlation Coefficient: **-0.85**

x	26	27	31	32
y	114	81	57	64



C. Equation: $y = 7.6x - 3$ Correlation Coefficient: **0.85**

x	1.5	2.0	2.5	3.0
y	6.8	17.0	13.3	20.7



2. Choose one of the bivariate data sets above and find the mean and standard deviation for **both** variables.

A	Mean	SD	CV
x	**2.25**	**0.645**	**0.287**
y	**15**	**4.97**	**0.331**

B	Mean	SD	CV
x	**29**	**2.94**	**0.102**
y	**79**	**25.4**	**0.322**

C	Mean	SD	CV
x	**2.25**	**0.645**	**0.287**
y	**14.45**	**5.93**	**0.410**