Practice with Scatter Plots

Classify the scatter plots as having a positive, negative, or no correlation.

1.

2.

3.

4.

5.

6.
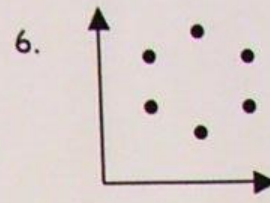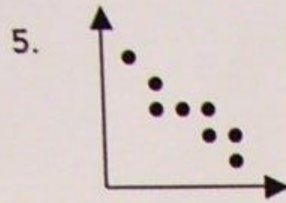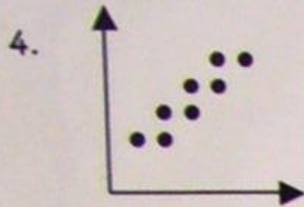
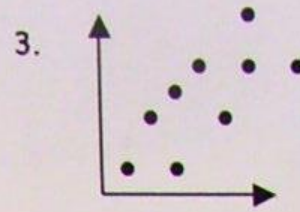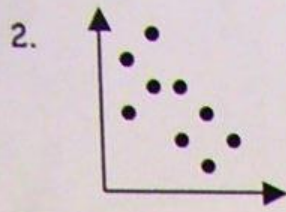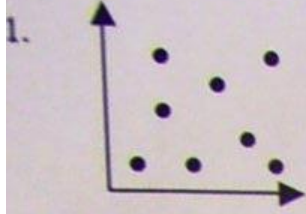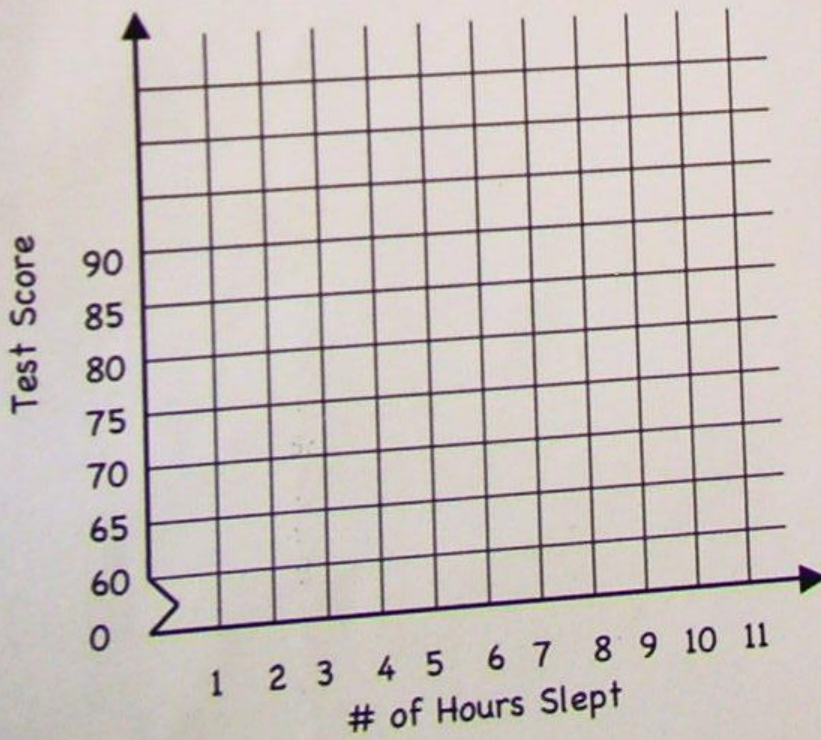7. A history teacher asked her students how many hours of sleep they had the night before a test. The data below shows the number of hours the student slept and their score on the exam. Plot the data on a scatter plot. *Draw a trend line.*

Hours Slept	8	7	7	8	6	5	7	4	9	7
Test Score	83	86	74	88	76	63	90	60	89	81

Use 2 points on your line to determine the equation of your line.

Test Score: 90, 85, 80, 75, 70, 65, 60, 0

# of Hours Slept: 1 2 3 4 5 6 7 8 9 10 11

Assume that during a three-hour period spent outside, a person recorded the
temperature and their water consumption. The experiment was conducted on 7
randomly selected days during the summer. The data is shown in the table
below.

Day	Temp- erature (F)	Water Consumption (oz)
1	99	48
2	85	27
3	97	48
4	75	16
5	92	32
6	85	25
7	83	20

Write the equation of your trend line!

The Effect of Temp on Water Consumption

Temperature (F) vs Water Consumption (Oz)

y-axis: Temperature (F): 70, 75, 80, 85, 90, 95, 100

x-axis: Water Consumption (Oz): 0 16 20 24 28 32 36 40 44 48 52 56

Create a scatter plot with the data. What is the correlation of this scatter
plot? (Hint: Do not use the day on the scatter plot.)