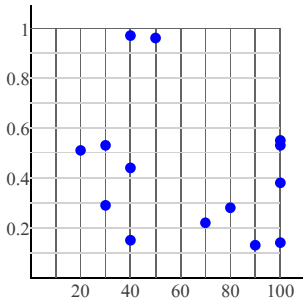
Kuta Software - Infinite Algebra 1 Name_____

Scatter Plots

Date_____ Period____

State if there appears to be a positive correlation, negative correlation, or no correlation. When there is a correlation, identify the relationship as linear, quadratic, or exponential.

1)



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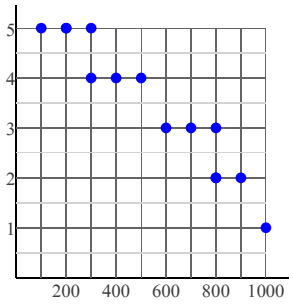
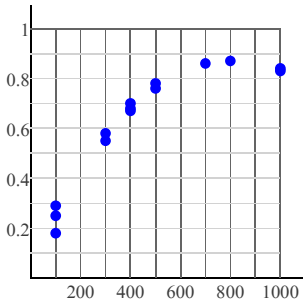
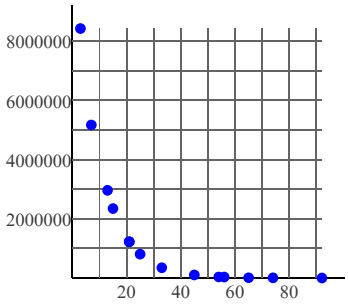


3)



4)

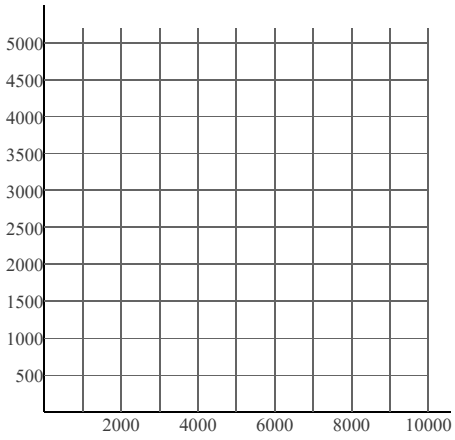


Construct a scatter plot. State if there appears to be a positive correlation, negative correlation, or no correlation. When there is a correlation, identify the relationship as linear, quadratic, or exponential.

5)

X	Y
1,000	1,300
2,000	1,500
3,000	2,000
3,000	2,000
4,000	2,400

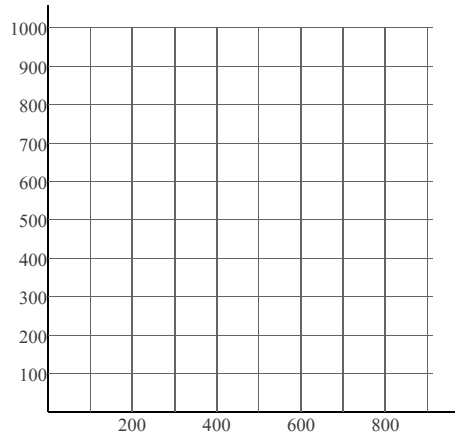
X	Y
5,000	2,500
7,000	3,600
7,000	3,700
9,000	4,200
10,000	5,200



6)

X	Y
140	500
150	1,000
170	300
180	100
270	200

X	Y
280	900
450	500
450	500
770	400
910	600



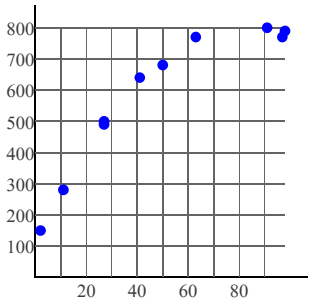
Find the slope-intercept form of the equation of the line that best fits the data.

7)

X	Y
2	150
11	280
27	490
27	500

X	Y
41	640
50	680
63	770

X	Y
91	800
97	770
98	790

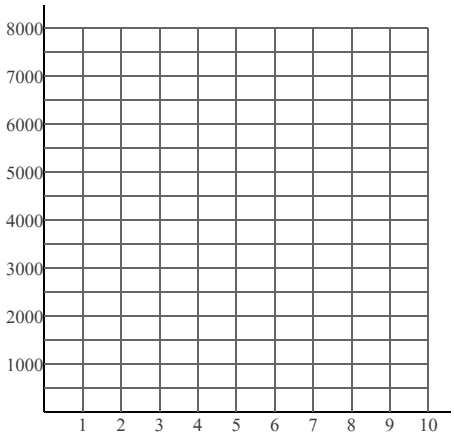


Construct a scatter plot. Find the slope-intercept form of the equation of the line that best fits the data and its r^2 value.

8)

X	Y
0.1	2,000
0.1	2,000
2.6	3,000
3.7	4,000
3.8	4,000

X	Y
5	5,000
6.7	6,000
7.9	7,000
8.5	8,000
9.4	8,000



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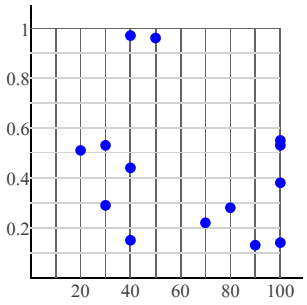
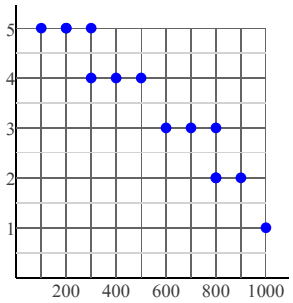
1)



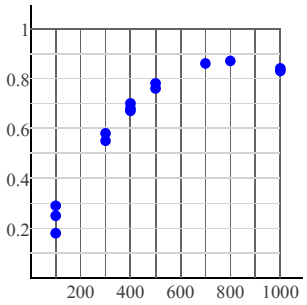
No correlation

2)



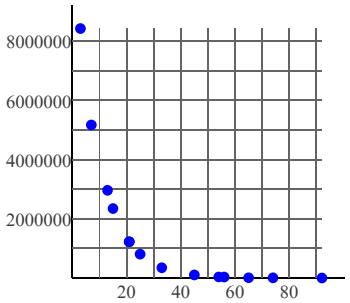
Negative correlation
Linear

3)



Positive correlation
Quadratic

4)



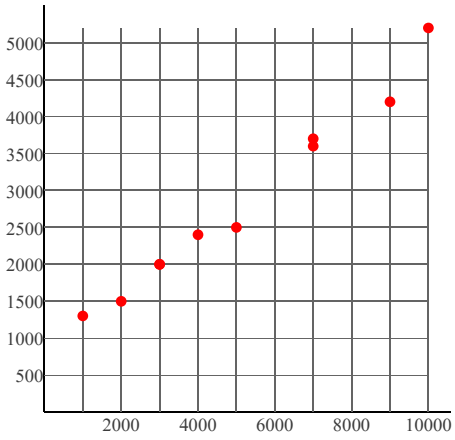
Negative correlation
Exponential

Construct a scatter plot. State if there appears to be a positive correlation, negative correlation, or no correlation. When there is a correlation, identify the relationship as linear, quadratic, or exponential.

5)

X	Y
1,000	1,300
2,000	1,500
3,000	2,000
3,000	2,000
4,000	2,400

X	Y
5,000	2,500
7,000	3,600
7,000	3,700
9,000	4,200
10,000	5,200

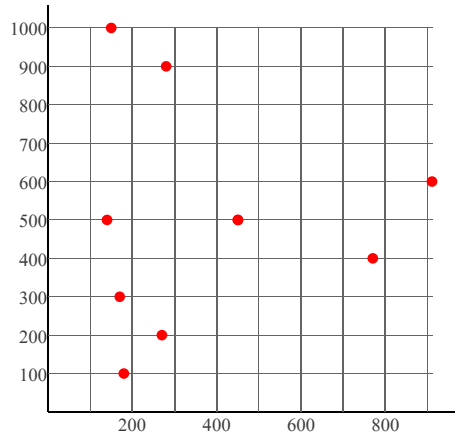


Positive correlation
Linear

6)

X	Y
140	500
150	1,000
170	300
180	100
270	200

X	Y
280	900
450	500
450	500
770	400
910	600



No correlation

Find the slope-intercept form of the equation of the line that best fits the data.

7)

X	Y
2	150
11	280
27	490
27	500

X	Y
41	640
50	680
63	770

X	Y
91	800
97	770
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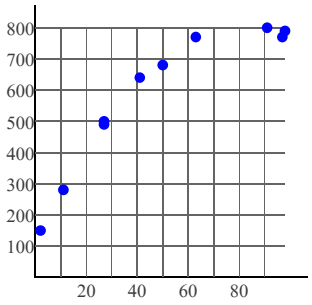


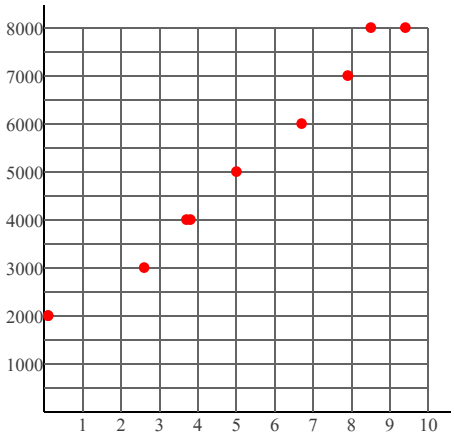
$y = 5.8435x + 290.73$

Construct a scatter plot. Find the slope-intercept form of the equation of the line that best fits the data and its r^2 value.

8)

X	Y
0.1	2,000
0.1	2,000
2.6	3,000
3.7	4,000
3.8	4,000

X	Y
5	5,000
6.7	6,000
7.9	7,000
8.5	8,000
9.4	8,000



$y = 681.32x + 1643.3$

$r^2 = 0.983$

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