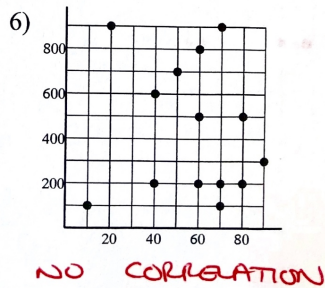
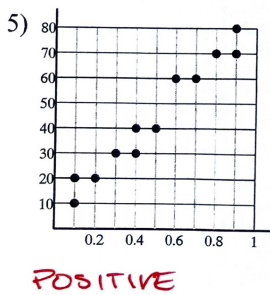
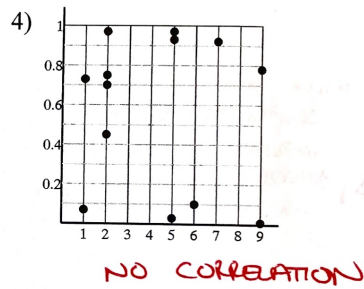
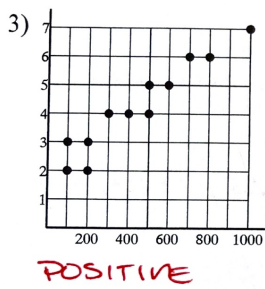
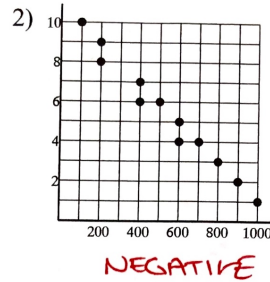
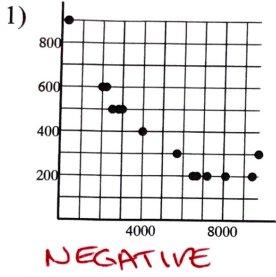


Correlation & Regression Practice

State if there appears to be a positive correlation, negative correlation, or no correlation.

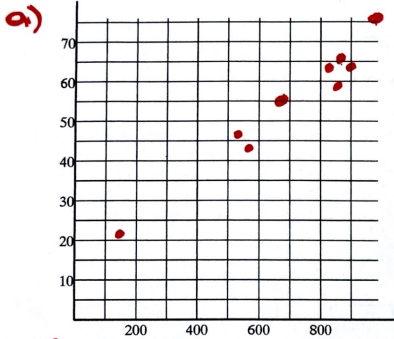


Use DESMOS!!!

- Make a scatter plot.
- State if there appears to be a positive, negative, or no correlation.
- Identify the relationship as linear or quadratic.
- Find the equation of the line or parabola that best fits the data.

7)

X	Y	X	Y	X	Y
170	22	690	55	860	66
540	47	820	64	900	64
550	44	830	59	990	76
670	55				

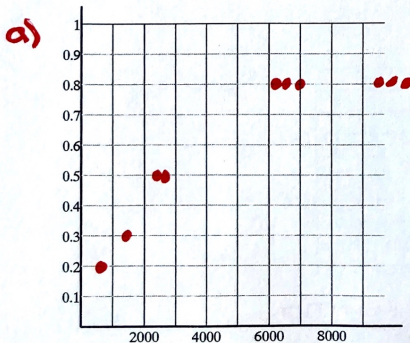


* R^2 ARE THE SAME FOR BOTH LINEAR + QUADRATIC EQUATIONS

- POSITIVE CORRELATION
- EITHER $d) y = .06x + 11.7$
 $y = 8.3 \times 10^{-7}x^2 + .06x + 11.9$

9)

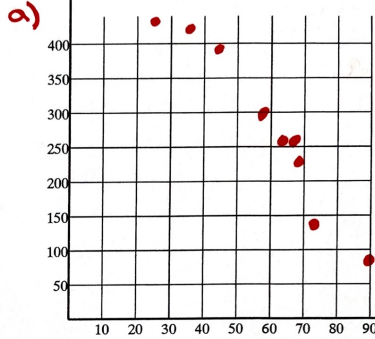
X	Y	X	Y
600	0.2	6,200	0.8
1,300	0.3	7,000	0.8
2,600	0.5	9,600	0.8
2,700	0.5	9,700	0.8
6,100	0.8	9,700	0.8



- POSITIVE CORRELATION
- QUADRATIC
- $d) y = -1.16 \times 10^{-8}x^2 + 7.0002x + .088$

8)

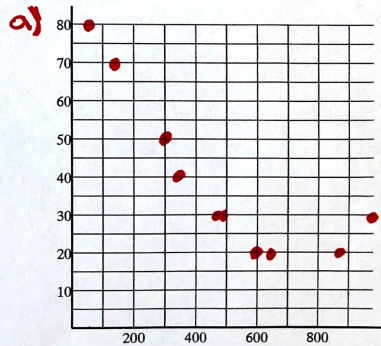
X	Y	X	Y	X	Y
26	440	59	300	69	230
36	420	63	260	72	140
44	390	67	260	90	80
59	300				



- NEGATIVE CORRELATION
- QUADRATIC
- $d) y = -.04x^2 - 1.68x + 523.4$

10)

X	Y	X	Y	X	Y
60	80	470	30	630	20
110	70	490	30	890	20
300	50	600	20	980	30
330	40				



- NEGATIVE CORRELATION
- QUADRATIC
- $d) y = .0001x^2 - .19x + 91.461$