



1. For the following data, (a) write down the equation for the regression line, (c) sketch the regression line and (c) use the regression line to predict the y value if $x = 130$.

x: average ≈ 100 , sd ≈ 15
y: average ≈ 110 , sd ≈ 30 , $r \approx 0.8$

2. For the following data, (a) write down the equation for the regression line, (c) sketch the regression line and (c) use the regression line to predict the y value if $x = 8$.

x: average ≈ 10 , sd ≈ 2
y: average ≈ 12 , sd ≈ 6 , $r \approx -0.2$



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y: average ≈ 12 , sd ≈ 6 , $r \approx -0.2$

3. For the small data set below left, $r \approx 0.76$. Find r for the other data sets.

x	y
1	2
2	3
3	1
4	5
5	6

x	y
2	1
3	2
1	3
5	4
6	5

x	y
1	0
2	1
3	-1
4	3
5	4

x	y
1	4
2	6
3	2
4	10
5	12

4. For the following data, calculate the correlation coefficient.

x	7	8	10	11	11	13
y	8	7	11	11	13	10

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