

For the purposes of this activity, use $\hat{y} = ax + b$ as the equation of the LSRL.

| Data Set 1 | |
|------------|-------|
| x | y |
| 10 | 8.04 |
| 8 | 6.95 |
| 13 | 7.58 |
| 9 | 8.81 |
| 11 | 8.33 |
| 14 | 9.96 |
| 6 | 7.24 |
| 4 | 4.26 |
| 12 | 10.84 |
| 7 | 4.82 |
| 5 | 5.68 |

| Data Set 2 | |
|------------|------|
| x | y |
| 10 | 9.14 |
| 8 | 8.14 |
| 13 | 8.74 |
| 9 | 8.77 |
| 11 | 9.26 |
| 14 | 8.10 |
| 6 | 6.13 |
| 4 | 3.10 |
| 12 | 9.13 |
| 7 | 7.26 |
| 5 | 4.74 |

| Data Set 3 | |
|------------|-------|
| x | y |
| 10 | 7.46 |
| 8 | 6.77 |
| 13 | 12.74 |
| 9 | 7.11 |
| 11 | 7.81 |
| 14 | 8.84 |
| 6 | 6.08 |
| 4 | 5.39 |
| 12 | 8.15 |
| 7 | 6.42 |
| 5 | 5.73 |

| Data Set 4 | |
|------------|-------|
| x | y |
| 8 | 6.58 |
| 8 | 5.76 |
| 8 | 7.71 |
| 8 | 8.84 |
| 8 | 8.47 |
| 8 | 7.04 |
| 8 | 5.25 |
| 19 | 12.50 |
| 8 | 5.56 |
| 8 | 7.91 |
| 8 | 6.89 |

a =

b =

r =

r-squared =

a =

b =

r =

r-squared =

a =

b =

r =

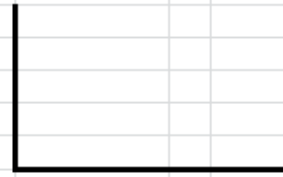
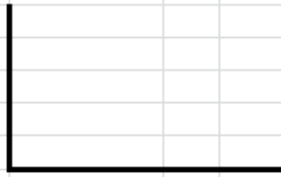
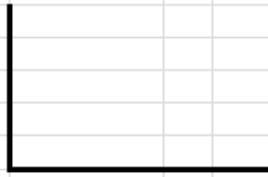
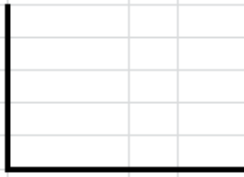
r-squared =

a =

b =

r =

r-squared =



Write a paragraph about your observations below. What did you notice about the relationship between the four data sets? Why do you think this is true?