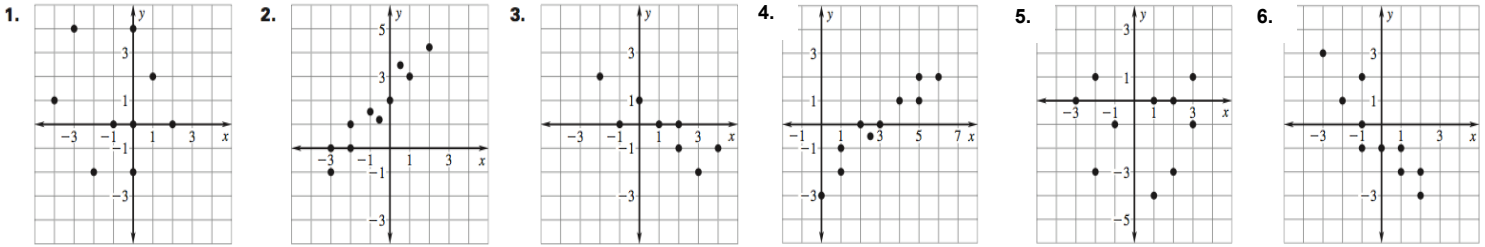
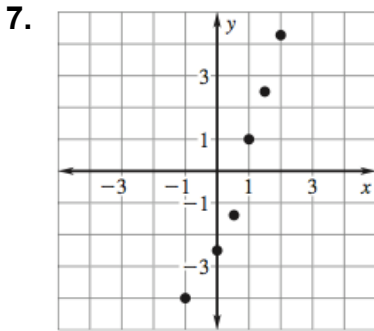


## 4.4 Best-Fit Lines Worksheet

For 1–6, state the type of correlation that each scatter plot depicts.

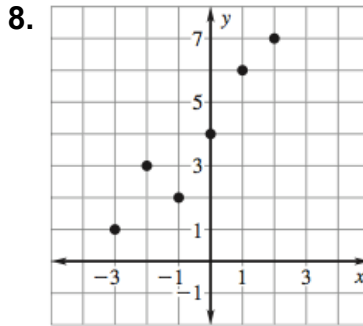


For 7–9, use a ruler to draw a best-fit line through the data. Calculate the slope (show work!) and state the y-intercept of the line you drew. Then write the equation of your best-fit line.



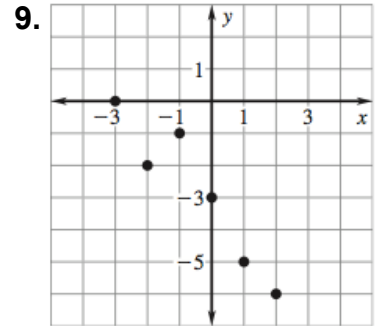
m: \_\_\_\_\_  
b: \_\_\_\_\_

\_\_\_\_\_   
 best-fit equation



m: \_\_\_\_\_  
b: \_\_\_\_\_

\_\_\_\_\_   
 best-fit equation



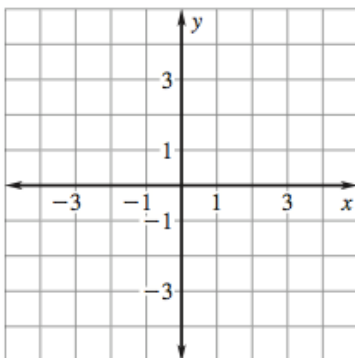
m: \_\_\_\_\_  
b: \_\_\_\_\_

\_\_\_\_\_   
 best-fit equation

For 10–11, plot the points from the table. Then use a ruler to draw a best-fit line through the data and write the equation of the line. Use the space to show your work.

10.

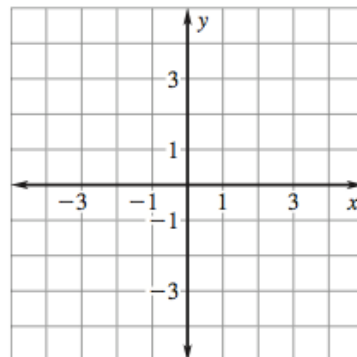
<b>x</b>	-2	-1	0	1	2	3
<b>y</b>	4	2	1	-2	-1	-2



\_\_\_\_\_   
 best-fit equation

11.

<b>x</b>	0	0	0.5	1.5	2	2.5
<b>y</b>	-4	-3	-1.5	1	3	4



\_\_\_\_\_   
 best-fit equation

**FLIP over to check your answers!**  
 →

**ANSWERS:**

1. relatively no correlation
2. positive correlation
3. negative correlation
4. positive correlation
5. relatively no correlation
6. negative correlation

For 7–11 below, your equation will likely be **different** than mine since you are drawing the line by hand. But your numbers should be relatively close to mine.

7.  $y = 3x - 2.1$

8.  $y = \frac{4}{3}x + 4.7$

9.  $y = -\frac{6}{5}x - 3.5$

10.  $y = -\frac{6}{5}x + 0.75$

11.  $y = \frac{7}{2}x - 4$