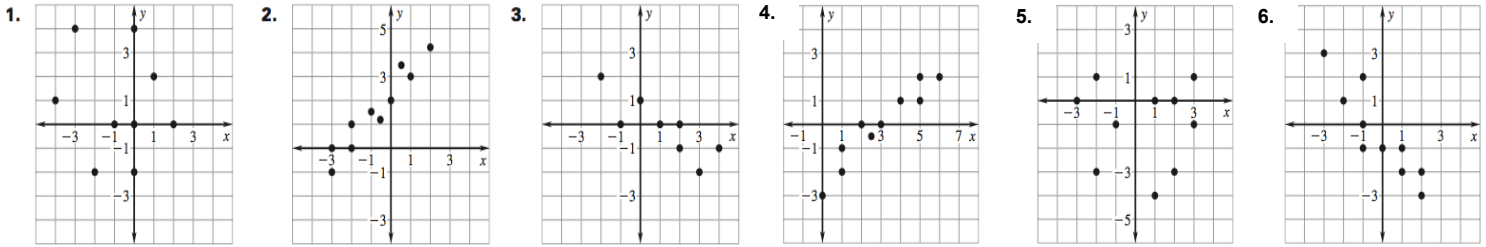
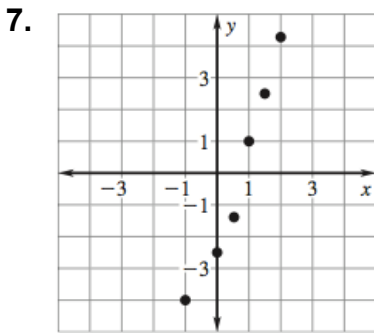


4.4 Best-Fit Lines Worksheet

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

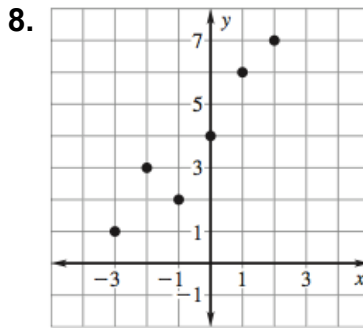


For 7–9, use a ruler to draw a best-fit line through the data. Calculate the slope (show work!) and state the y-intercept of the line you drew. Then write the equation of your best-fit line.



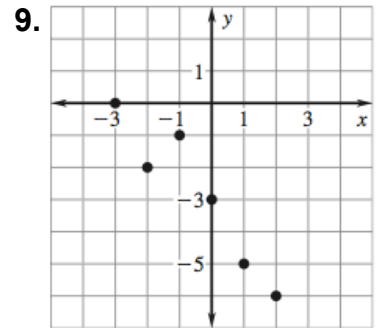
m: _____
b: _____

 best-fit equation



m: _____
b: _____

 best-fit equation



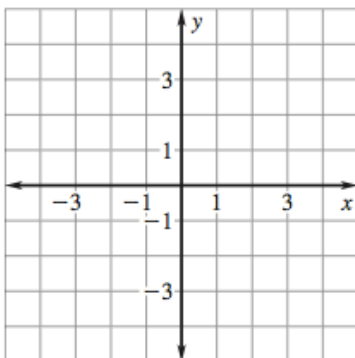
m: _____
b: _____

 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.

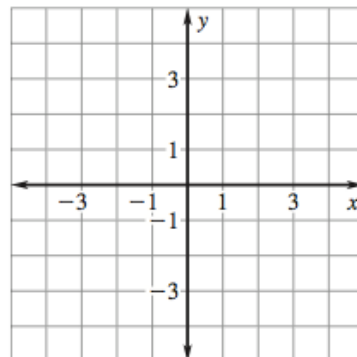
x	-2	-1	0	1	2	3
y	4	2	1	-2	-1	-2



 best-fit equation

11.

x	0	0	0.5	1.5	2	2.5
y	-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. $y = \frac{7}{2}x - 4$