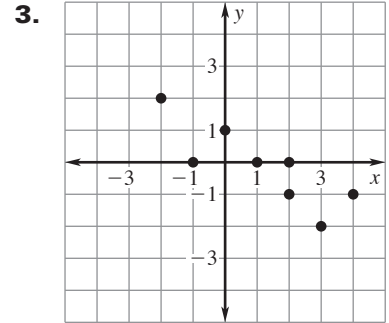
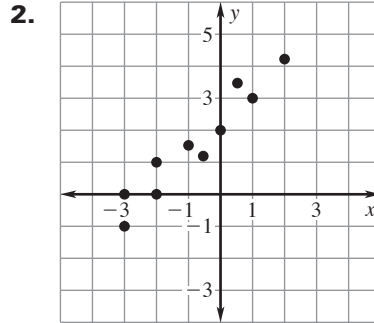
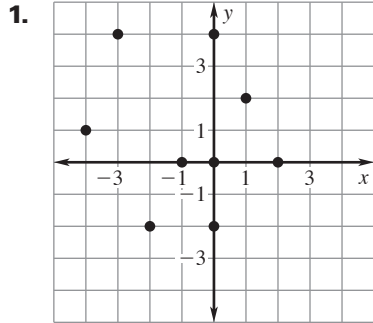


LESSON 4.6 **Practice B**
For use with the lesson "Fit a Line to Data"

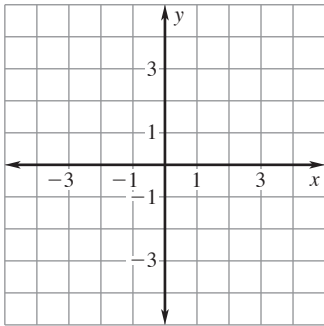
Tell whether x and y show a **positive correlation**, a **negative correlation**, or **relatively no correlation**.



Make a scatter plot of the data. Draw a line of fit. Write an equation for the line.

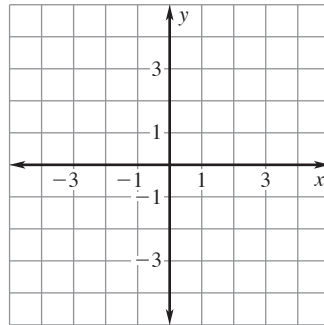
4.

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



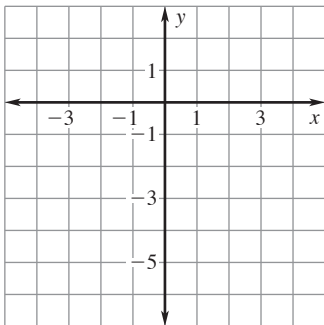
5.

x	0	0	0.5	1.5	2	2.5
y	-4	-3	-1.5	1	3	4



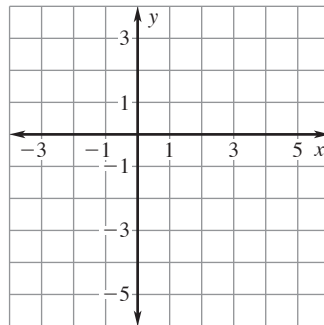
6.

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



7.

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



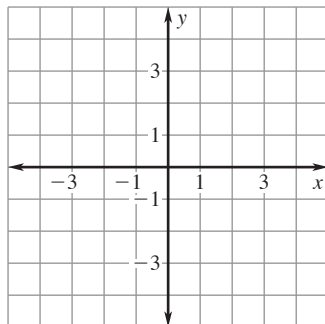
LESSON
4.6

Practice B *continued*
For use with the lesson "Fit a Line to Data"

Make a scatter plot of the data. Describe the correlation of the data. If possible, fit a line to the data and write an equation of the line.

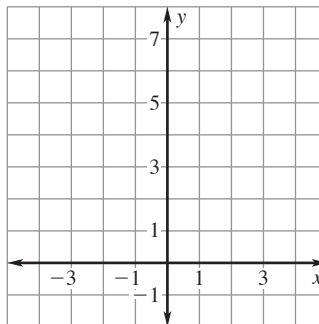
8.

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



9.

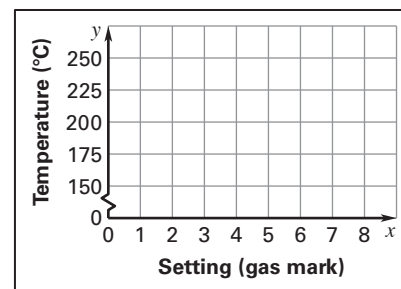
x	-4	-3	-2	-2	-1	0	1
y	7	5	6	3	4	2	1



10. **Thermostat** The table shows the thermostat setting (in units called gas marks) on a British gas oven and the corresponding temperature in degrees Celsius.

Setting (gas mark)	2	3	4	5	6	7	8
Temperature (°C)	150	160	180	190	200	220	230

- Make a scatter plot of the data where x represents the thermostat setting (in gas marks) and y represents the temperature (in degrees Celsius).
- Describe the correlation of the data.
- An oven set to gas mark 10 heats to a temperature of 260°C . Does this fit the trend shown by your scatter plot? Explain your reasoning.



11. **Fruits** The table shows the amount of energy (in kilocalories) and the amount of carbohydrates (in grams) in a 100-gram serving of different fruits.

Fruit	Apple	Banana	Blueberries	Kiwi	Pear	Strawberries	Mango
Energy (kcal)	59	92	56	61	59	30	65
Carbohydrates (g)	15.25	23.43	14.13	14.88	15.11	7.02	17

- Make a scatter plot of the data where x represents the energy (in kilocalories) and y represents the carbohydrates (in grams).
- Describe the correlation of the data.
- A 100-gram serving of an avocado contains 161 kilocalories of energy and 7.39 grams of carbohydrates. Does an avocado fit the trend shown by your scatter plot? Explain your reasoning.

