Name _____ Date _____ Class _____

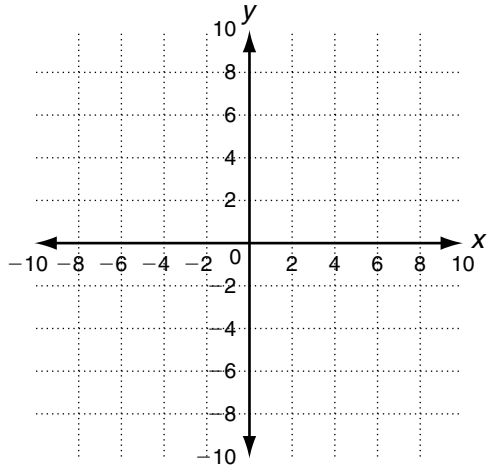
LESSON 8-1

Practice B

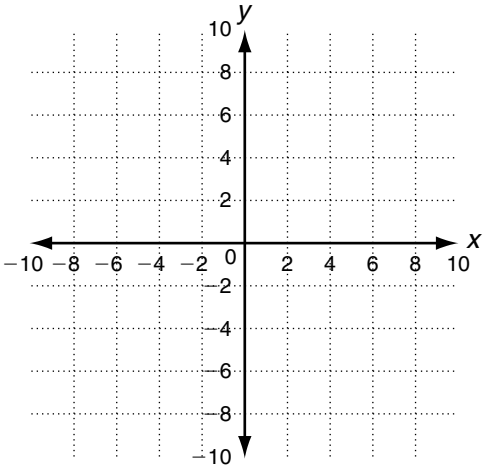
Variation Functions

Write and graph each function.

1. y varies directly as x, and $y = 30$ when $x = -6$.



2. y varies inversely as x, and $y = 5$ when $x = 3$.



Determine whether each data set represents a direction variation, an inverse variation, or neither.

3.

x	8	12	16
y	2	3	4

4.

x	3	1	0.5
y	5	15	30

Solve.

5. The number of chaperones, c, needed for the class trip varies directly as the number of students, s, going on the trip, and $c = 7$ when $s = 56$. How many chaperones are needed if 104 students go on the class trip?

6. The owner of a bookstore developed a model for determining the price of rare comic books. The price, P, of each book should vary directly with the number of people, N, that have requested the book and inversely to the number of such books in existence, M. If $N = 10$ people, $M = 10{,}000$ copies and $P = \$5$, then find P for $N = 200$ people and $M = 100$ copies.