

Private Screen 1

LESSON
10-1

Practice A

Inverse Variation

Tell whether each relationship is an inverse relation. Explain.

1.

x	y
1	30
2	15
3	10

 $xy =$ _____
 $xy =$ _____
 $xy =$ _____

2.

x	y
9	2
7	3
5	4

 $xy =$ _____
 $xy =$ _____
 $xy =$ _____

3. $x + y = 4$

4. $xy = 7$

Private Screen 2

5. Write and graph the inverse variation in which $y = 6$ when $x = 2$ by following the steps below.

a. Find the constant of variation.

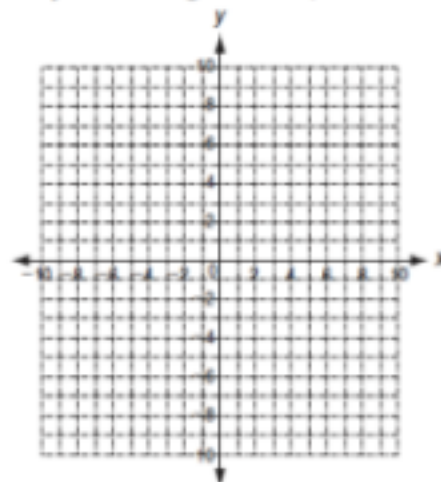
$k =$ _____

b. Write the inverse variation equation.

$y = \frac{\square}{x}$

c. Make a table of values and graph.

x	-6	-4	-2	2	4	6
y						



6. Let $x_1 = 5$, $y_1 = 4$, and $x_2 = 2$. Let y vary inversely as x . Find y_2 .

7. Let $x_1 = 3$, $y_1 = 7$, and $y_2 = 21$. Let y vary inversely as x . Find x_2 .