$\qquad$
$\qquad$

## 4 Chapter 4 Quiz

$\qquad$
(Lessons 4-1 and 4-2)

Write the ordered pair for each point shown. Name the quadrant in which the point is located.

1. $P$
2. $T$

For Questions 3 and 4, identify each transformation as a reflection, translation, dilation, or rotation.
3.

4.



1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. Find the coordinates of the vertices of triangle $A B C$ with $A(1,2), B(3,3)$, and $C(3,-1)$, after the triangle is reflected over the $y$-axis. Then graph the preimage and its image.


NAME $\qquad$ DATE $\qquad$ PERIOD $\qquad$
4 Chapter 4 Quiz
(Lessons 4-3 and 4-4)

1. Express the relation $\{(3,5),(-4,6),(3,8),(2,4),(1,3)\}$ as a mapping. Then determine the domain and range.
2. Express the relation shown in the graph as a set of ordered pairs. Then write the inverse of the relation.
3. Find the solution set for $y=4 x-3$, given the replacement set $\{(-3,9),(-2,-11),(0,-2),(2,5)\}$.
4. Solve $3 x-2 y=-6$ if the domain is $\{-2,-1,0,2,3\}$.
5. Solve the equation $y=2 x+4$ if the domain is $\{-3,-2,-1,0,1\}$.
6. 


2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$

1. $-(-3,0)$; none
2. (2, -4); IV
3. $\qquad$
4. dilation
5. $\frac{A^{\prime}(-1,2), B^{\prime}(-3,3),}{C^{\prime}(-3,-1)}$

|  |  |  |  |  | $\boldsymbol{y}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $B^{\prime}$ |  |  |  |  |  |  | $B$ |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | $A^{\prime}$ | $A$ | $A$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | $O$ |  |  |  |  | $x$ |
|  | $C^{\prime}$ |  |  |  |  |  |  | $C$ |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

1. 



Domain: $\{-4,1,2,3\}$ Range: $\{3,4,5,6,8\}$
2. $\{(-5,2),(-3,-2)$,
$(1,1),(4,-3\} ;$
$\{(2,-5),(-2,-3)$,
$(1,1),(-3,4)\}$
3. $\{(-2,-11),(2,5)\}$
4. $\{(-2,0),(-1,1.5)$, $(0,3),(2,6),(3,7.5)\}$
5. $\{(-3,-2),(-2,0)$, $(-1,2),(0,4),(1,6)\}$

