Identify the domain and range of the given relation. Then tell whether the relation is a function.

1. \((0, 3), (1, 1), (2, 2), (3, 4), (4, 2)\)
2. \((-2, -3), (-1, -1), (0, 1), (0, 3), (1, 5)\)

Use the vertical line test to determine whether the relation is a function.

3. [Graph]
4. [Graph]
5. [Graph]

Graph the equation.

6. \(y = 3x + 2\)
7. \(y = -2x - 2\)
8. \(y = -x\)

9. \(y = -x + 3\)
10. \(y = \frac{1}{2}x + 2\)
11. \(y = 2x - 5\)

12. \(y = x + 2\)
13. \(y = -1\)
14. \(y = -\frac{1}{4}x - 1\)
Tell whether the function is linear. Then evaluate the function for the given value of $x$.

15. $f(x) = x + 5; f(-2)$

16. $f(x) = x^2 + x - 2; f(1)$

17. $f(x) = 3 - 3x; f(2)$

18. $f(x) = |x + 2|; f(-4)$

19. $f(x) = \frac{2}{x - 2}; f(6)$

20. $f(x) = \frac{2}{3}x - 5; f(9)$

In Exercises 21–23, use the following information.

PGA Money List  The table below shows the top five players on the 2005 PGA Tour money list through June 5th along with the number of wins for each player.

<table>
<thead>
<tr>
<th>Player</th>
<th>Vijay Singh</th>
<th>Phil Mickelson</th>
<th>Tiger Woods</th>
<th>David Toms</th>
<th>Kenny Perry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wins, $x$</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Dollars, $y$ (in millions)</td>
<td>5.3</td>
<td>4.2</td>
<td>4.1</td>
<td>3.3</td>
<td>2.5</td>
</tr>
</tbody>
</table>

21. What is the domain of the relation?

22. What is the range of the relation?

23. Is the amount of money earned a function of the number of wins?

In Exercises 24–26, use the following information.

Furniture Assembly  At the beginning of your 8 hour shift, there were 42 units of furniture that needed to be assembled. The number of units $n$ that still need to be assembled during your shift can be modeled by $n(t) = -3t + 42$ where $t$ is the time in hours.

24. Graph the model.

25. What is a reasonable domain and range of the model?

26. How many units still need to be assembled after you have worked 5 hours of your shift?