Worksheet 2.2-2.3	3		Name					
Determine whether the equation defines y as a function of x.								
1. $2x + 3y = 7$ 2		5x + y = 8	3. $-x^2 + y^2 = 2$		4. $x^2 - 2y = 2$			
Evaluate each function.								
5. Given $f(x) = 3$	3x - 1, find							
a. f(2)	b. <i>f</i> (−1)	c. <i>f</i> (0)	d. $f\left(\frac{2}{2}\right)$	e. <i>f</i> (<i>k</i>)	f. $f(k+2)$			
			(37					

6. Given $g(x) = 2x^2 + 3$, find a. g(3) b. g(-1) c. g(0) d. $g\left(\frac{1}{2}\right)$ e. g(c) f. g(c+5)

Determine the domain of the function represented by the given equation.

7. f(x) = 3x - 4 8. $f(x) = x^2 + 2$ 9. $f(x) = \frac{4}{x+2}$ 10. $f(x) = \sqrt{7+x}$ 11. $f(x) = \sqrt{9-x^2}$

Find the value or values of *a* in the domain of *f* for which f(a) equals the given number. 12. f(x) = 3x - 2, f(a) = 1013. $f(x) = x^2 + 2x - 2$, f(a) = 1

14. f(x) = |x|, f(a) = 415. $f(x) = x^2 + 2, f(a) = 1$

Find the zeros of f .			
16. $f(x) = 3x - 6$	17. $f(x) = 5x + 2$	18. $f(x) = x^2 - 4$	19. $f(x) = x^2 - 5x - 24$

Graph each function.



Find the equation that satisfies the given conditions. Write the equation in slope-intercept form.23. Through (1, -1), slope 524. Through (8, -2), slope $-\frac{3}{4}$ 25. Through (-3, -7) and (6, -1)

Section 2.3 WS

1. The graph of a line with zero slope is _____.

2. The graph of a line whose slope is undefined is ______.

Determine whether the graphs of the two equations are parallel, perpendicular, or neither.

3.
$$y = 3x - 4, y = -3x + 2$$

4. $y = -\frac{2}{3}x + 1, y = 2 - \frac{2x}{3}$

5.
$$f(x) = 3x - 1, y = -\frac{x}{3} - 1$$

6. $y = \frac{4x}{3} + 2, y = 2 - \frac{3}{4}x$

Graph the function.



19. Through (8, -1) and (-4, 2)

20. Through (-2,1) and (5,1)

21. Through (1, -3) and (-1, -9)

22. The graph is parallel to the graph of $y = \frac{2}{3}x - 1$ and passes through the point whose coordinates are (-3, -1).

23. The graph is parallel to the graph of 2x - 5y = 2 and passes through the point whose coordinates are (5,2).

24. The graph is perpendicular to the graph of y = -x + 3 and passes through the point whose coordinates are (-5,2).

25. The graph is perpendicular to the graph of 3x - 2y = 5 and passes through the point whose coordinates are (-3,4).