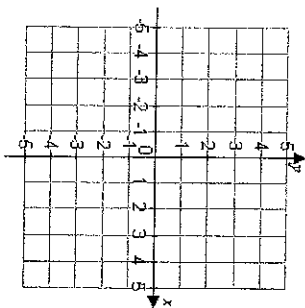


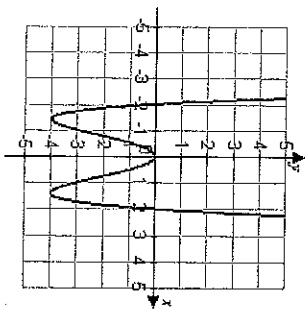
- Determine the quadrant(s) in which (x, y) is located so that the condition is satisfied
 $x = 9$ and $y < -6$

- Find three ordered pairs satisfying $y = -4x - 2$.

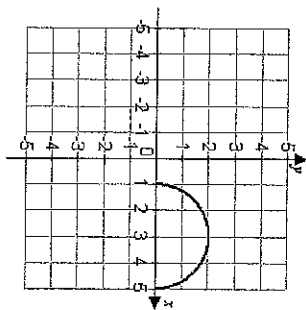
- Create and complete a table to find the x and y coordinates of points that lie on the graph of the equation $y = x^2 - 4x$. Plot at least 5 points along with the graph of the equation.



- Find the x - and y -intercepts of the graph of the equation $y = x^4 - 4x^2$.



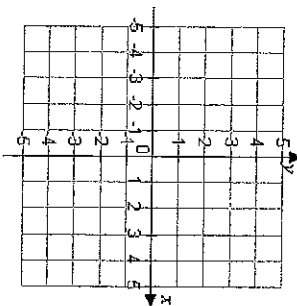
- Assuming that the graph shown has y -axis symmetry, sketch the complete graph.



- Given $x^2 + y^2 = 4$, use the algebraic tests to determine symmetry with respect to both axes and the origin.

- Plot the points and find the slope of the line passing through the pair of points.

$(2, 0), (-5, 3)$



- Determine whether lines L_1 and L_2 passing through the pairs of points are parallel, perpendicular, or neither.

$L_1: (7, -8), (-9, 2)$

$L_2: (-8, 7), (9, -4)$

- Find the slope-intercept form of the equation of the line that passes through the given point and has the indicated slope.

point: $(-7, 9)$

slope: $m = 3$

10. Does the table describe a function?

Input value	-4	-3	0	3	4
Output value	19	19	19	19	19

11. Evaluate the function at the specified value of the independent variable and simplify.

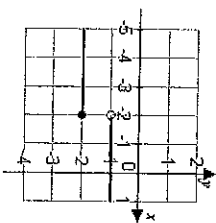
$$f(s) = 7s - 3$$

$$f(-2.2)$$

12. Find the domain of the function.

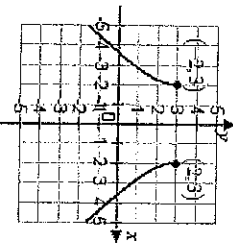
$$f(p) = \frac{9p}{p-6}$$

13. Use the graph of the function to find the domain and range of f .



14. Determine the intervals over which the function is increasing, decreasing, or constant.

$$f(x) = -\sqrt{x^2 - 4} + 3$$



15. Find the average rate of change of the function from x_1 to x_2 .

$$f(x) = x^2 + 4x + 7$$

$$x_1 = 5, x_2 = 7$$

16. Describe the sequence of transformations from the related common function $f(x) = \sqrt{x}$ to g .

$$g(x) = -\sqrt{x} + 5$$

17. Write an equation for the function that is described by the following characteristics:

the shape of $f(x) = x^2$, but moved five units down, seven units to the left, and then reflected in the x -axis

18. Find $(f + g)(x)$.

$$f(x) = -3x^2 + 7x - 7$$

$$g(x) = -x^2 - x + 1$$

19. Find $(f/g)(x)$.

$$f(x) = 5x^2 - 9x$$

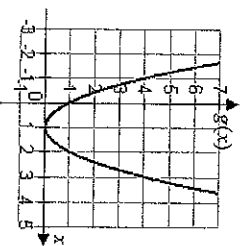
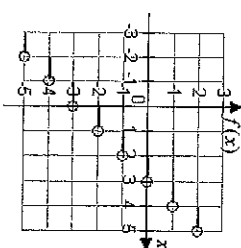
$$g(x) = -8 - x$$

20. Find $g \circ f$.

$$f(x) = x - 5$$

$$g(x) = x^2$$

21. Use the graphs of f and g to evaluate the function.



$$(f \circ g)(2)$$

22. Find the inverse function of $f(x) = -4x + 5$

23. Find the inverse function of f .

$$f(x) = x^5 - 5$$