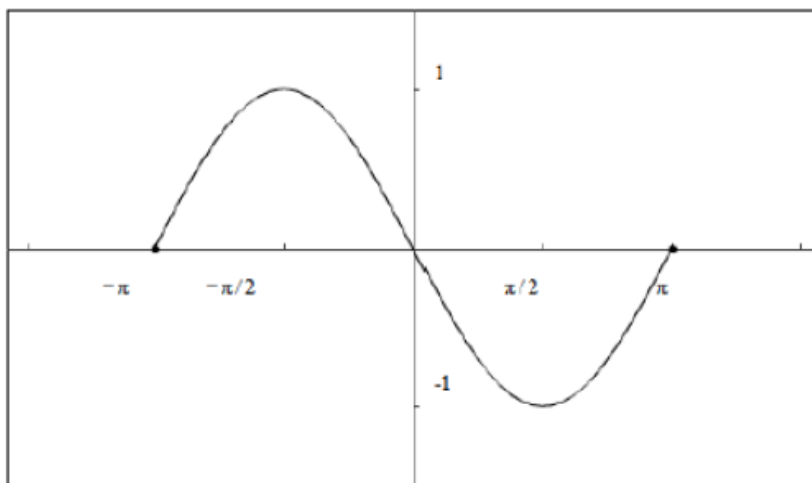


- If $p(t) = \frac{3t - 6}{t - b}$ and $p(-1) = 1$, then what is the value of b ?
- Determine if the graph is that of a function. If it is use the graph to find a) its domain and range, b) the intercepts c) any symmetry with respect to axes or origin.



- Evaluate each expression using the values in the given table:

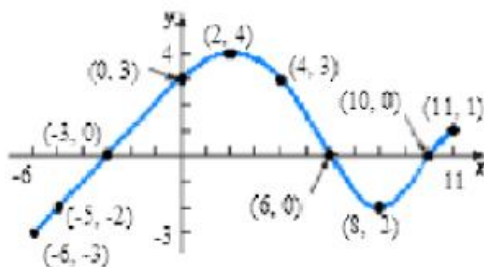
x	-3	-2	-1	0	1	2	3
f(x)	-9	-7	-5	-3	-1	1	3
g(x)	3	2	1	0	-1	-2	-3

- $(f \circ g)(3) =$
 - $(g \circ f)(2) =$
 - $(f \circ f)(0) =$
 - $(g \circ g)(-1) =$
 - $(f + g)(-3) =$
 - $(fg)(0) =$
- Find $f + g$, $f \cdot g$ and $f \circ g$ for $f(x) = \frac{7}{x - 8}$ and $g(x) = \frac{1}{x}$. Determine each function's domain.
 - Determine algebraically if the following function is even, odd, or neither.

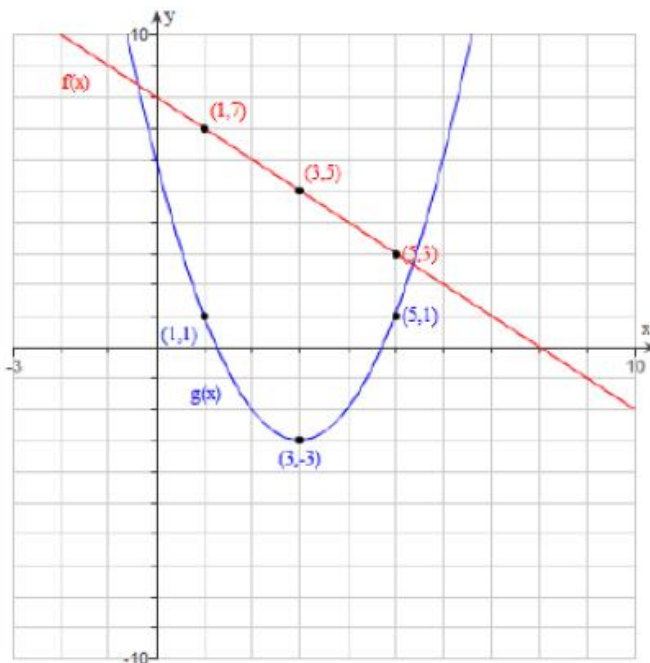
(a) $f(x) = (x + 1)^2 - 2$

(b) $g(x) = -\frac{x^3}{27}$

6. For the function shown below



- (a) What is $f(2)$?
 (b) Is $f(-2)$ positive or negative?
 (c) For what values of x is $f(x) < 0$?
 (d) Find the domain.
 (e) Find the range.
 (f) Find intercepts.
 (g) Find all local and absolute extrema.
 (h) intervals in which f is increasing.
 (i) intervals in which f is decreasing.
7. The graph of two functions f and g is illustrated below. Use the graph to answer the following.



- (a) $\left(\frac{g}{f}\right)(3) =$
 (b) $(g - f)(5) =$
 (c) $(f + g)(1) =$
 (d) $(fg)(1) =$
 (e) $(g \circ f)(3) =$
 (f) $(f \circ g)(1) =$
8. True or false: The y -intercept of a function whose domain is all the real numbers, is $f(0)$.