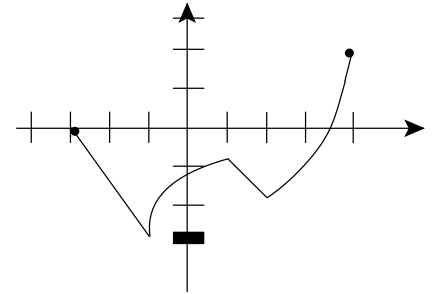


For problems 1-4, refer to figure on the right.



1. Find the domain of $y=h(x)$ $[-3, 4]$.

2. Find the range of $y=h(x)$ $[-3, 2]$.

3. $h(-1) =$ -3 . $h(4) =$ 2 .

4. For what value(s) of x , $h(x) = 0$ $x = -3$ & $x = 3.50$

For problems 5-9, let $f(x) = x^2 + 2$ and $g(x) = \frac{1}{x+2}$.

5. Find the domain of $f(x)$ $(-\infty, \infty)$.

6. Find the range of $f(x)$ $[2, \infty)$.

7. $f(3) =$ 11 . $f(0) =$ 2 , $f(-3) =$ 11

8. Find the domain of $g(x) = \{x | x \neq -2\} = (-\infty, -2) \cup (-2, \infty)$

9. $g(-3) =$ -1 . $g(0) =$ $\frac{1}{2}$, $g(3) =$ $\frac{1}{5}$

10. Evaluate: $f\left(\frac{1}{x+2}\right) =$

a) $\frac{1}{x^2 + 2}$

b) $\frac{x^2 + 2}{x + 2}$

c) $(x + 2)^2 + 2$

d) $\left(\frac{1}{x+2}\right)^2 + 2$

11. Complete the following table and sketch the graph of the function $f(x) = -2x^2 - 4x + 6$

x	$y=f(x)$
-3	0
-2	6
-1	8
0	6
1	0

