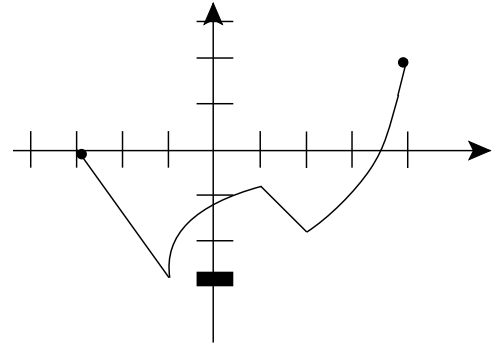


For problems 1-4, refer to figure on the right.

1. Find the domain of $y = h(x)$ _____.
2. Find the range of $y = h(x)$ _____.
3. $h(-1) =$ _____. $h(4) =$ _____.
4. For what value(s) of x , $h(x) = 0$ _____



For problems 5-10, let $f(x) = x^2 + 2$ and $g(x) = \frac{1}{x+2}$.

5. Find the domain of $f(x)$ _____.
6. Find the range of $f(x)$ _____.
7. $f(3) =$ _____. $f(0) =$ _____, $f(-3) =$ _____
8. Find the domain of $g(x)$ _____.
9. $g(-3) =$ _____. $g(0) =$ _____, $g(3) =$ _____
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 | |
| -2 | |
| -1 | |
| 0 | |
| 1 | |