Precalculus

Functions

Name:_____

Answer #1-2 using the graph of $h(x)$.

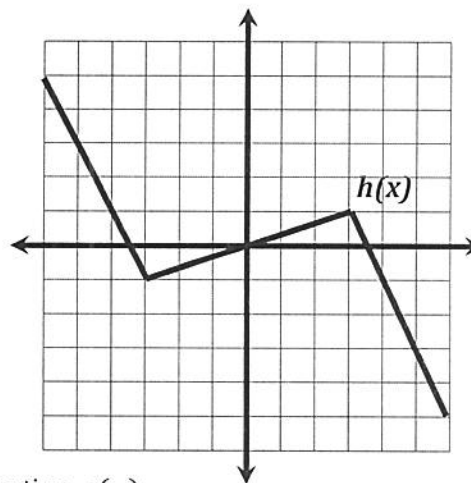1. Find the following function values.

   a) $h(-3) =$ _____   b) $h(5) =$ _____

   c) $h(-6) =$ _____   d) $h(4) =$ _____

2. Find the value(s) of x where the function has the indicated value.

   a) $h(x) = 3$ b) $h(x) = 1$

   c) $h(x) = 0$ d) $h(x) = -3$

$h(x)$

3. Evaluate or solve using the table below representing the function $g(x)$.

   a) $g(-4)$ b) $g(12)$

   c) $g(x) = 10$ d) $g(0)$

   e) $g(x) = 7$ f) $g(x) = -1$

x	-4	-2	-1	3	7	9	12	13
y	8	7	10	12	-4	-9	0	3

4. Use the functions below to answer the following questions.

$$f(x) = 2x - 3 \qquad g(x) = x^2 - 4x + 1 \qquad h(x) = \frac{2x}{x+5}$$

   a) $h(-7)$ b) $f(-5)$ c) $h(0)$

   d) $g(-2)$ e) $h(-5)$ f) $g(3)$

   g) $f(a)$ h) $g(x^2)$ i) $h(-c)$

   j) $f(x-2)$ k) $h(3x)$ l) $g(x+3)$