

CW on Interpreting functions and notation

1. Evaluate the following expressions given the functions below:

$$g(x) = -3x + 1$$

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

$$h(x) = \frac{12}{x}$$

$$j(x) = 2x + 9$$

a. $g(10) =$

b. $f(3) =$

c. $h(-2) =$

d. $j(7) =$

e. $h(a)$

f. $g(2) - h(3)$

g. $j(-2) + f(5)$

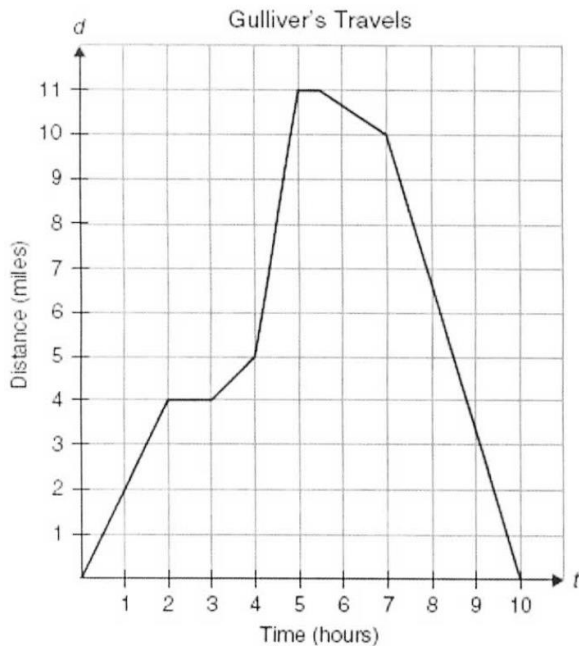
2. Translate the following statements into coordinate points:

a. $f(-1) = 1$

b. $h(2) = 7$

3. Given $g(x) = -3x + 1$; Find x if $g(x) = 16$

For #'s 4 and 5, refer to the graph below.



The function $d(t)$ represents Gulliver's distance from home after t hours.

4. Use the graph to evaluate the function at each value. Explain what each means in terms of the problem.

a. $d(2)$

5. Calculate the value of t that makes each equation true. Explain what each means in terms the problem.

a. $d(t) = 2$