

NAME:

DATE:

**A2.Q1.BERMELLEEMBO:**

**FUNCTIONS**

**(DAY F2)**

**NOTES**

1. Consider the function:  $f(x) = 4 - 2x - 2x^2$

A. Find  $f(1)$

B. Find  $f(2)$

C. Find  $f(-3)$

D. Find the “y-intercept” of the function.

E. Is  $x = -2$  also a zero of the function? Show.

F. Write each of the results of A, B, C, D, and E in terms of their input/output relationship.

G. Write each of the results of A, B, C, D and E in a table of values.

2. Consider the function:  $y = f(x)$  with a partial table of values shown here.

| $x$ | $y$ |
|-----|-----|
| -2  | -7  |
| 1   | 2   |
| 0   | 1   |
| -1  | 0   |
| 2   | 9   |
| 4   | 65  |

A. Find  $f(1)$

B. Find  $f(2)$

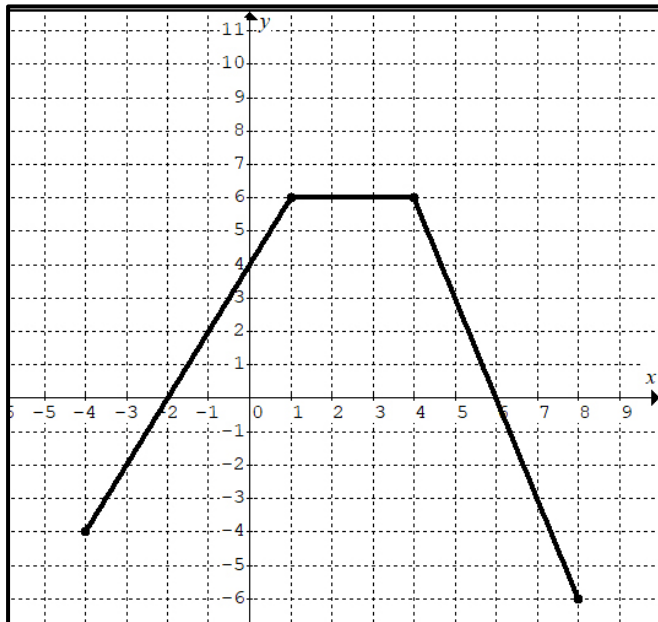
C. Find  $f(-2)$

D. Find the “y-intercept” of the function. Show.

E. What is the zero of the function? Show work.

F. If  $f(x) = -7$ , what is the value of  $x$ ?

3. Consider the function:  $y = f(x)$  with the graph show here.



A. Find  $f(5)$

B. Find  $f(2)$

C. Find  $f(-3)$

D. Find  $f(8)$

E. If  $f(x) = -3$  what are the values of  $x$ ?

F. Find the “y-intercept” of the function.

G. What are the zeros of the function?

H. Write each of the results of C, E, and F in terms of their input/output relationship.