

NAME:

DATE:

A2.Q1.BERMELLEEMBO:

FUNCTIONS

(DAY F2)

MASTERY PRACTICE

1. Consider the function: $f(x) = 27 - 3x^2$

A. Find $f(1)$

B. Find $f(2)$

C. Find $f(-3)$

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

E. Is $x = 3$ 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
-3	-5
-2	0
-1	3
0	4
2	0
4	-12

A. Find $f(-1)$

B. Find $f(-3)$

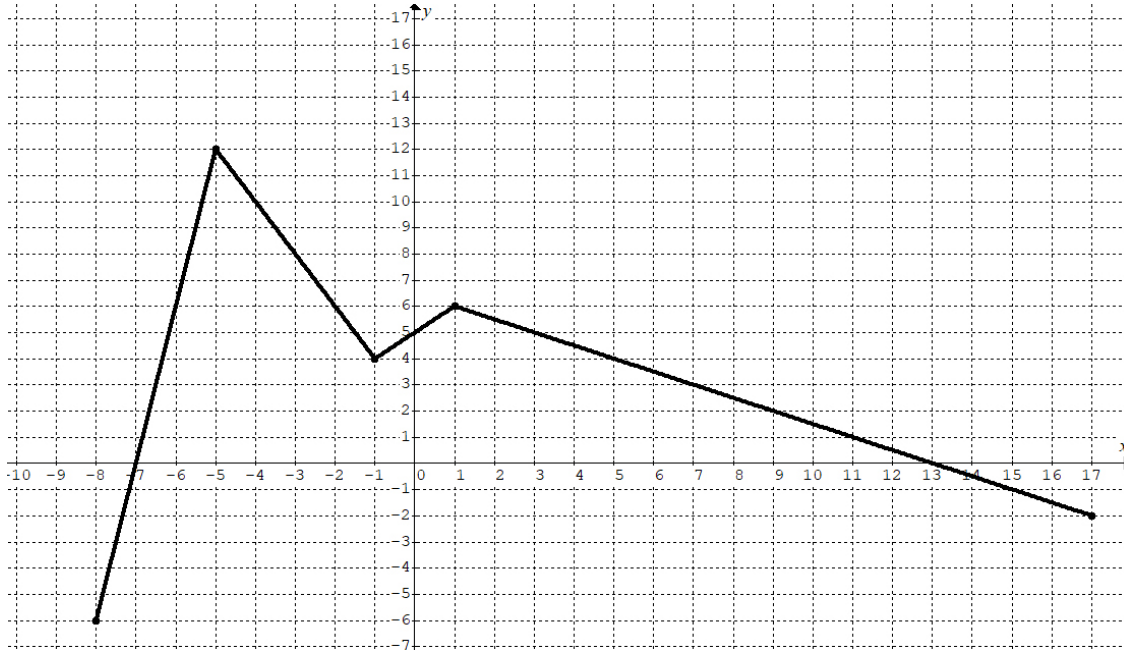
C. Find $f(4)$

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

E. What are the zeros of the function? Show work.

F. If $f(x) = -12$, what is the value of x ?

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



A. Find $f(-6)$

B. Find $f(3)$

C. Find $f(-4)$

D. Find $f(11)$

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

F. What are the zeros of the function?

G. If $f(x) = 6$, what are the three values of x ?