

NAME:

DATE:

A2.Q1.BERMELLEEMBO:

FUNCTIONS

(DAY F5)

NOTES

1. Consider the function: $f(x) = -\frac{3}{2}x + 6$

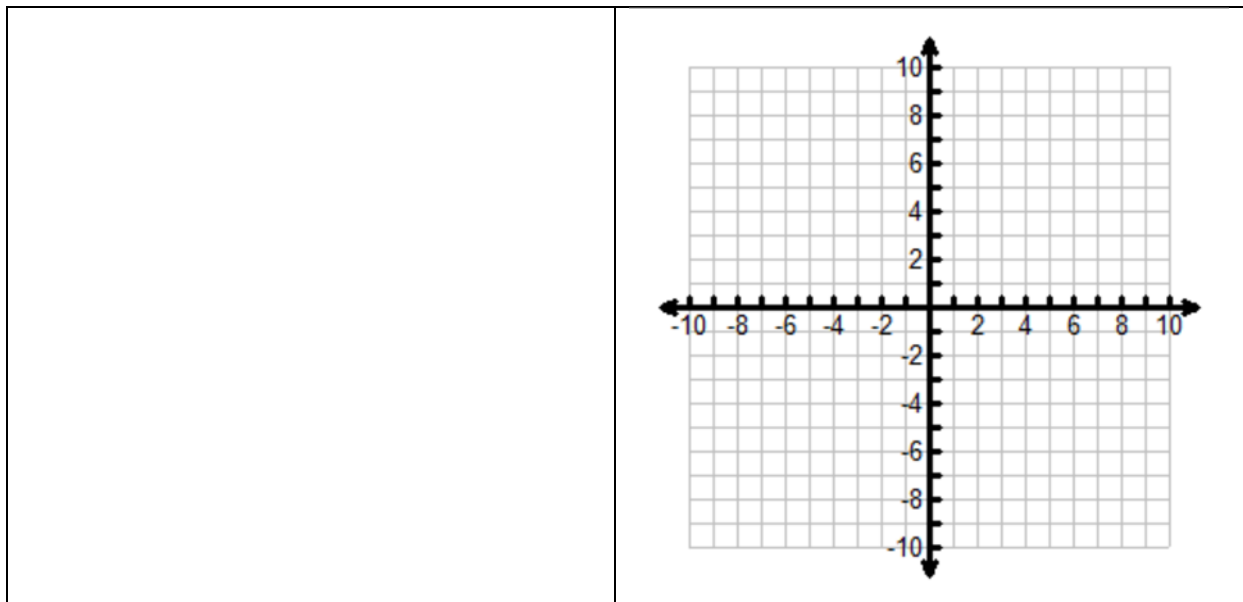
Let $y = f(x)$

A. Find $f(40)$

B. Find the y-intercept:

C. Is $x = -4$ a zero of the function? Show work.

D. Construct a table of values and graph the function.



E. Use the graph to determine the zero(s) of the function.

F. Is the point $(18, -6)$ a point on the function? Show.

2. Consider the function: $f(x) = -|x - 2| + 3$

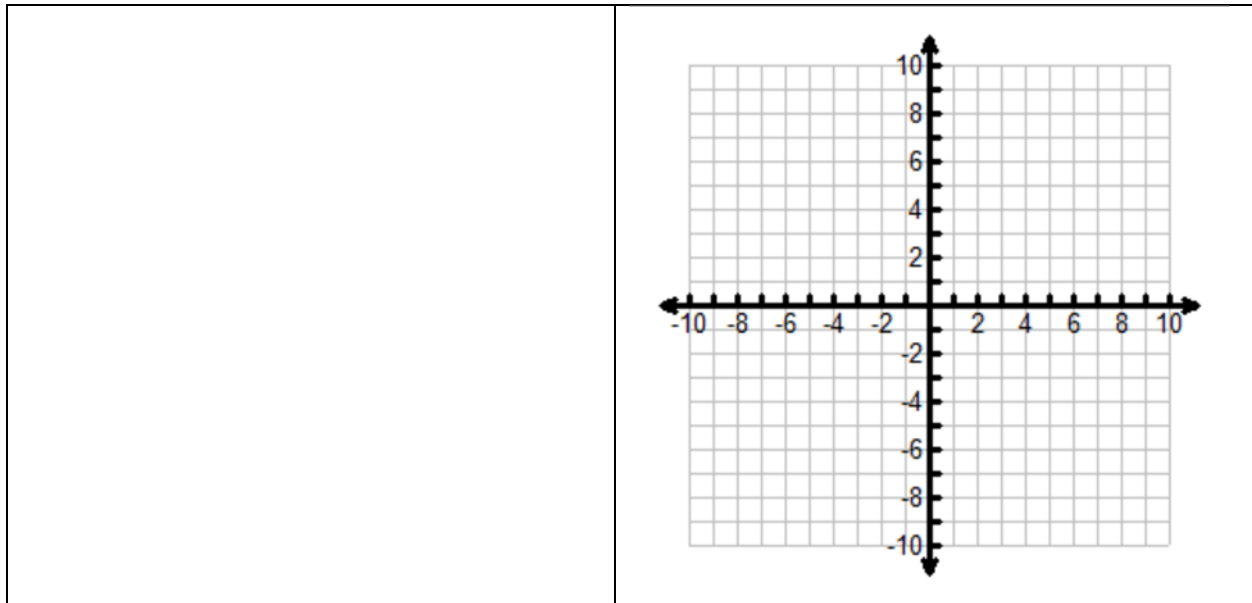
Let $y = f(x)$

A. Find $f(-35)$

B. Find the y -intercept:

C. Is $x = 2$ a zero of the function? Show work.

D. Construct a table of values and graph the function.



E. Use the graph to determine the zero(s) of the function.

F. On what interval of x is the function increasing?

G. On what interval of x is the function decreasing?

3. Consider the function: $f(x) = x^2 - 6x + 5$

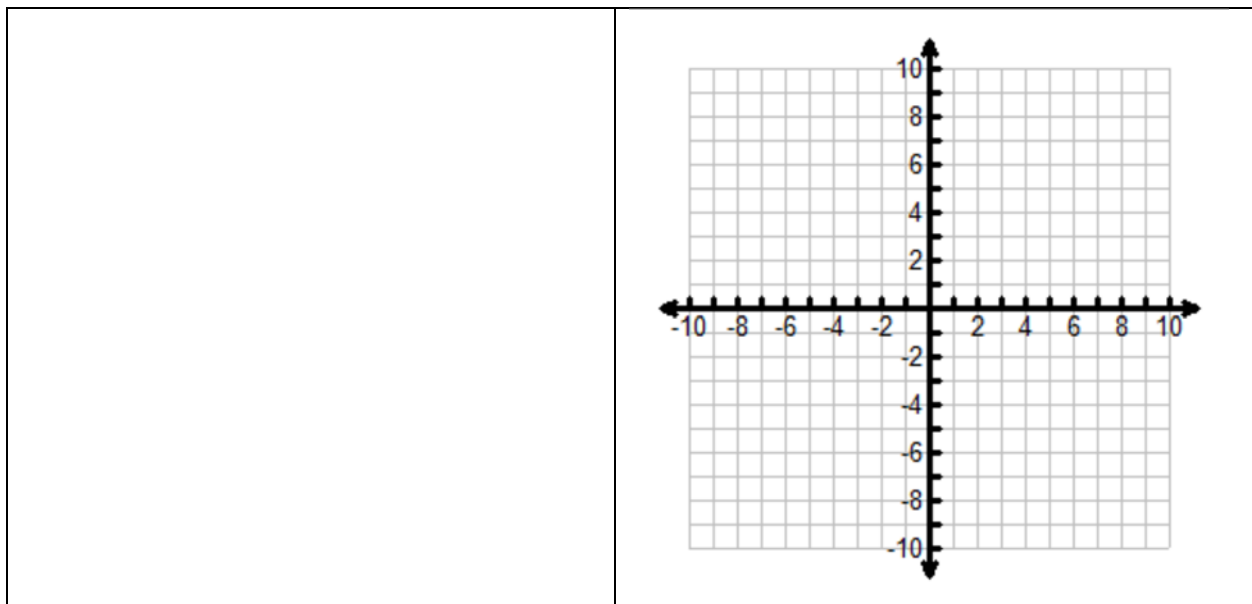
Let $y = f(x)$

A. Find $f(20)$

B. Find the y -intercept:

C. Is $x = -1$ a zero of the function? Show work.

D. Construct a table of values and graph the function.



E. Use the graph to determine the zero(s) of the function.

F. On what interval of x is the function increasing?

G. On what interval of x is the function decreasing?

NOT YET 2425: 4. Consider the function: $f(x) = 0.5(x-1)(x+3)$

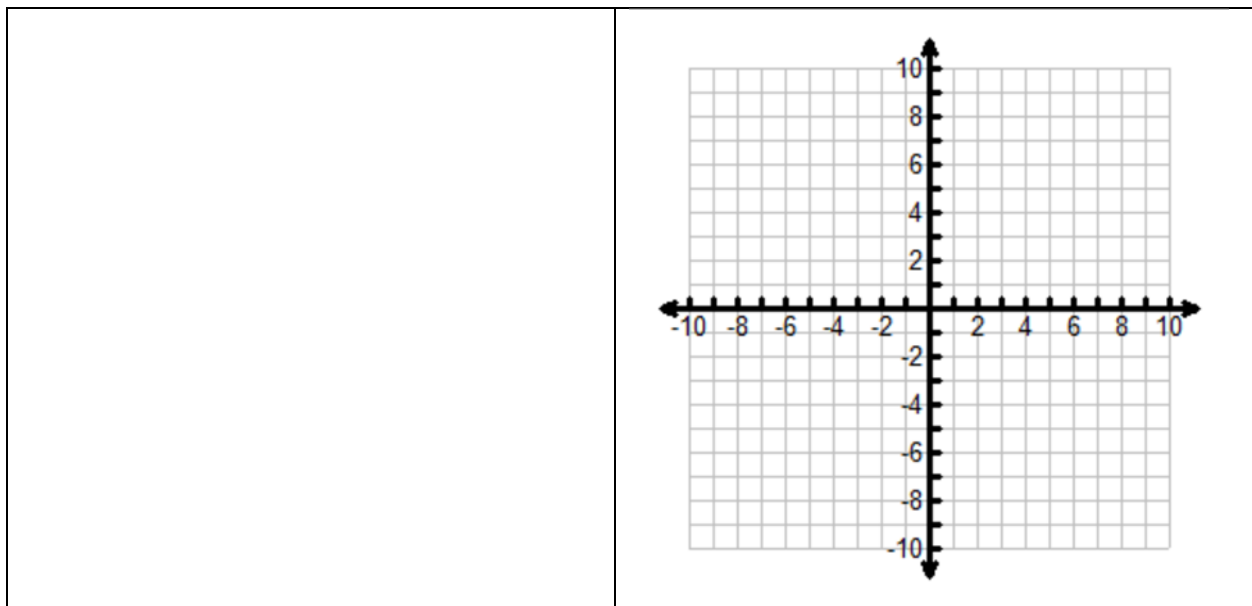
Let $y = f(x)$

A. Find $f(-50)$

B. Find the y-intercept:

C. Is $x=1$ a zero of the function? Show work.

D. Construct a table of values and graph the function.



E. Use the graph to determine the zero(s) of the function.

F. On what interval of x is the function increasing?

G. On what interval of x is the function decreasing?