NAME:

DATE:

A2.Q1.BERMEL/LEMBO: SYSTEMS OF EQUATIONS (DAY S2)

MASTERY PRACTICE

1. Solve the system of equations using the method of **elimination**.

$$\begin{aligned} 2x + 5y &= 24 \\ -10x + 2y &= 42 \end{aligned}$$

2. Solve the system of equations using the method of **elimination**.

$$\begin{aligned} 7x - 2y &= 38 \\ -14x - 3y &= -41 \end{aligned}$$

3. Solve the system of equations using the method of **elimination**.

$3x + 4y = -10$
$9x + 2y = -20$

4. Solve the system of equations using the method of **substitution**.

$x + 5y = -3$
$y = 2x - 5$

5. Solve the system of equations using the method of **substitution**.

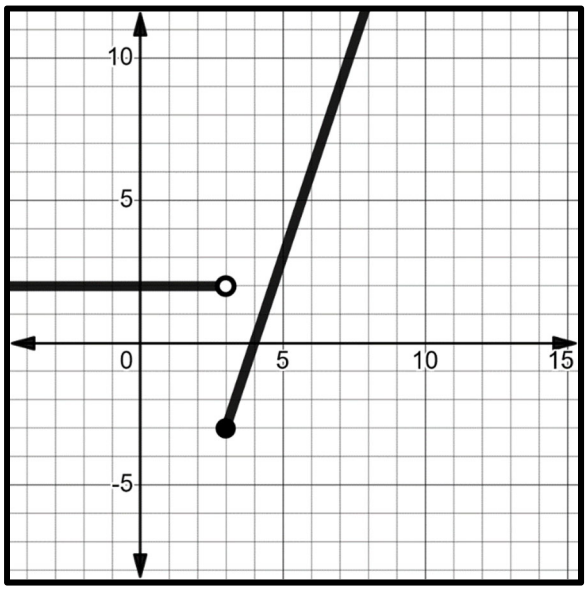
$x + 2y = -2$
$y = 3x + 20$

6. Solve the system of equations using the method of **substitution**.

$y = 5x + 11$
$4x + y = -7$

A LOOK BACK:

7. (F3) Consider the graph of the function $y = f(x)$ shown below.



Evaluate each A - F

A. $f(3)$ B. $f(7)$ C. $f(1)$

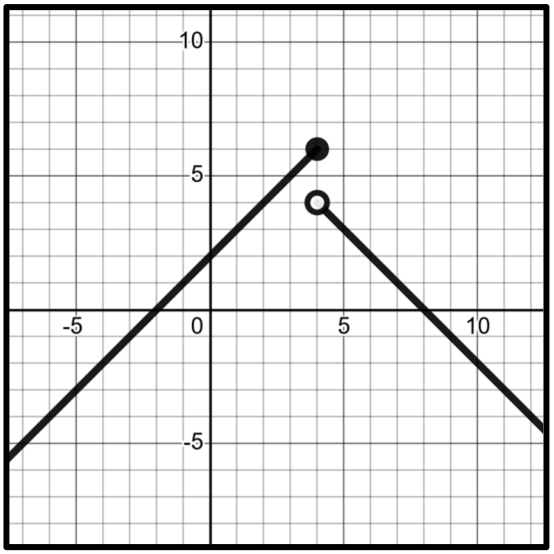
D. $f(-4)$ E. $f(-2)$ F. $f(5)$

G. Find the "y-intercept". Show the function notation that leads to this answer.

H. Find the zero of the function. Show the function notation that leads to this answer.

I. If $f(x) = 12$ what is the values of x? Support with notation.

8. (F4) Let $y = f(x)$



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

B. On what interval of x is the function constant?

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

D. Find the "y-intercept" and show the function notation that leads to the answer.

E. Find the zero(s) of the function and show the function notation that leads to the answer(s).