

Name: \_\_\_\_\_

Mrs. Roubos

Date: \_\_\_\_\_

8A Period \_\_\_\_\_

Take Home Quiz # 13

1) Solve using LESC

Find three consecutive ODD integers that the product of the first and the second exceeds the third by 8

10

2) Use the piecewise function to evaluate the following:

$$f(x) = \begin{cases} -2x^2 - 1, & x \leq 2 \\ \frac{4}{5}x - 4, & x > 2 \end{cases}$$

a)  $f(0)$

b)  $f(5)$

c)  $f(2)$

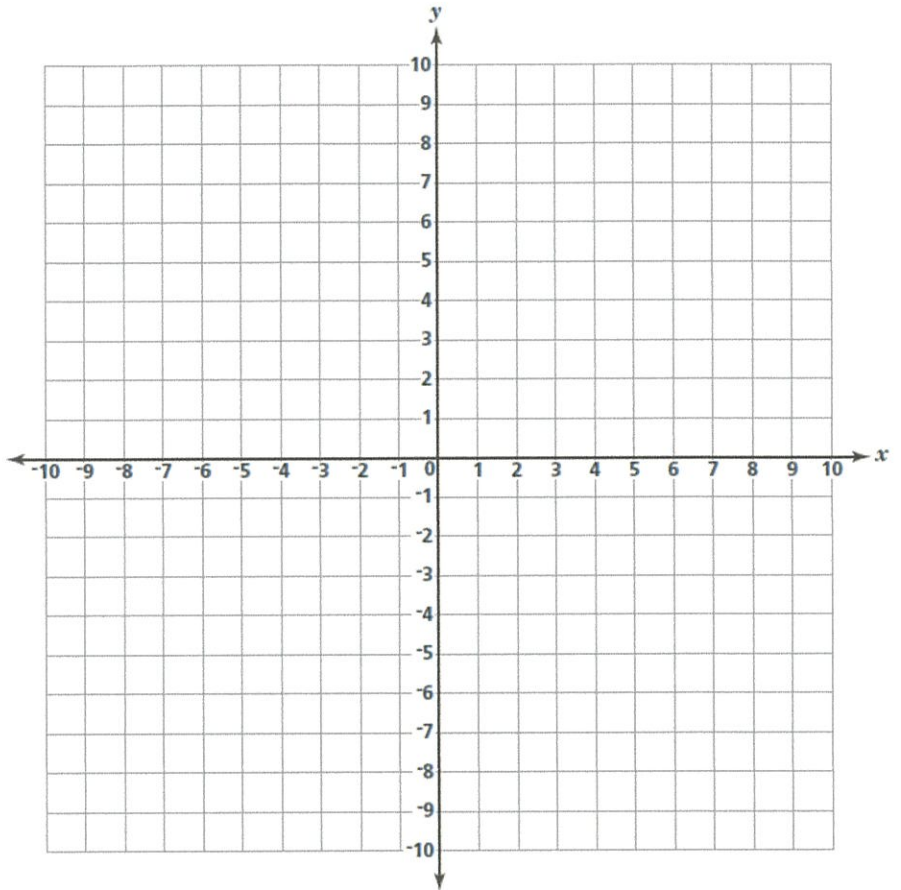
d)  $f(-3)$

e)  $f(10)$

10

3) Graph the following function. Then, evaluate the graph at the specified domain below.  
Show all supportive work.

$$f(x) = \begin{cases} x+5 & x < -3 \\ -2x-1 & x \geq -3 \end{cases}$$



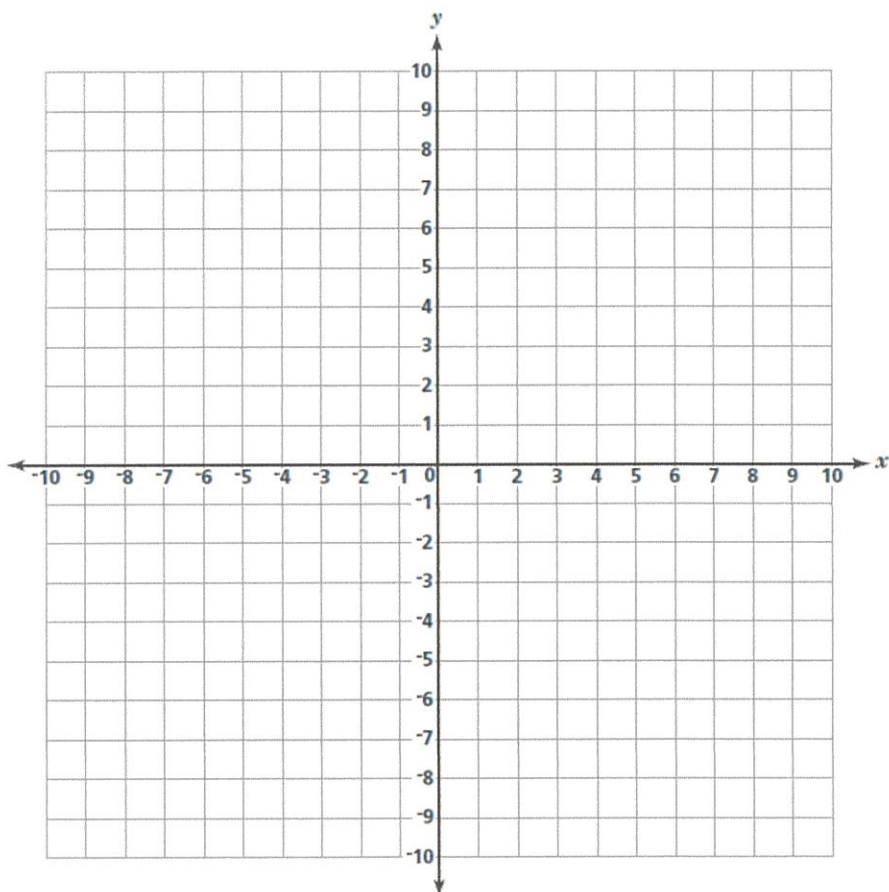
$$f(3) =$$

$$f(-4) =$$

$$f(-2) =$$

4) Graph the following step function. Then, evaluate the graph at the specified domain below.  
Show all supportive work.

$$j(x) = \begin{cases} -1 & \text{if } -4 \leq x < -1 \\ 2 & \text{if } -1 \leq x \leq 2 \\ -1 & \text{if } 2 < x \leq 5 \end{cases}$$

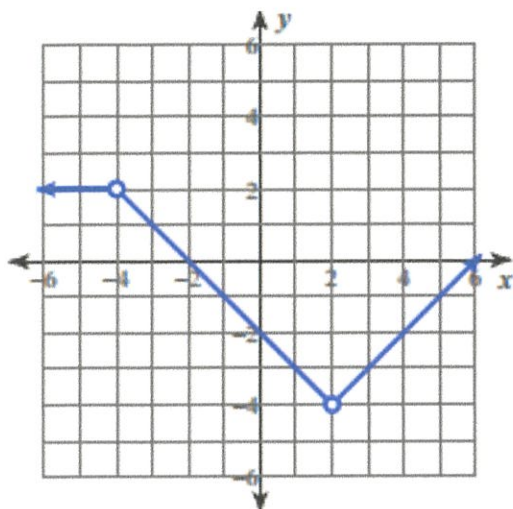


$$f(-1) =$$

$$f(2) =$$

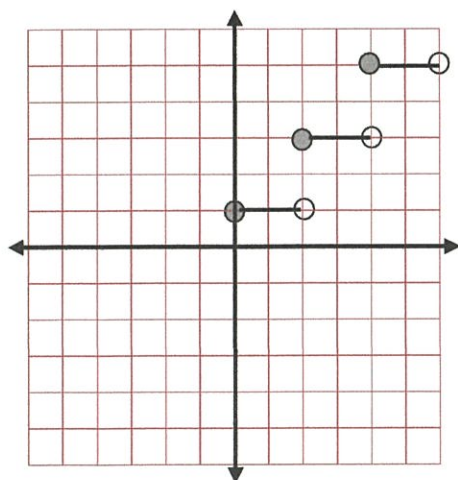
$$f(4) =$$

5) Write the piecewise function for the given graph. Show all supportive work.



5

6) Write the piecewise function for the given graph. Show all supportive work.



5