

# Corrective Assignment

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

Use the piecewise function to evaluate the following.

1.

$$f(x) = \begin{cases} \frac{2x}{x+4}, & x \leq -1 \\ 3-x^2, & -1 < x < 1 \\ x^3-1, & x \geq 1 \end{cases}$$

a.  $f(0) =$

b.  $f(-1) =$

c.  $f(1) =$

d.  $f(2) =$

2.

$$f(x) = \begin{cases} \sqrt{-2x+3}, & x < -3 \\ \frac{1}{x-1}, & -3 \leq x \leq 0 \\ 2|x-3|+1, & x > 0 \end{cases}$$

a.  $f(0) =$

b.  $f(-2) =$

c.  $f(2) =$

d.  $f(-11) =$

3.

$$f(x) = \begin{cases} x^3-x, & x \leq -4 \\ 8, & -4 < x < -2 \\ \frac{5}{\sqrt{x+3}}, & x \geq -2 \end{cases}$$

a.  $f(-3) =$

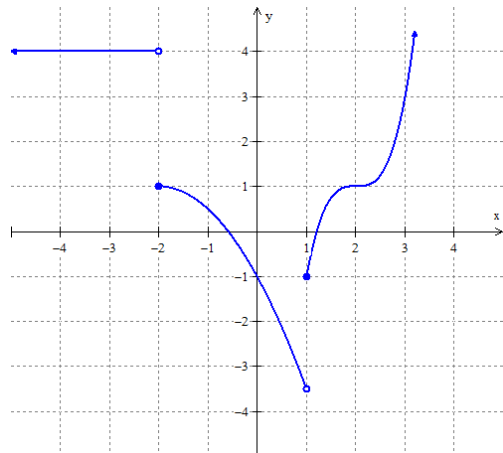
b.  $f(6) =$

c.  $f(-4) =$

d.  $f(-2) =$

Use the piecewise function to evaluate the following.

4.



a.  $f(-2) =$

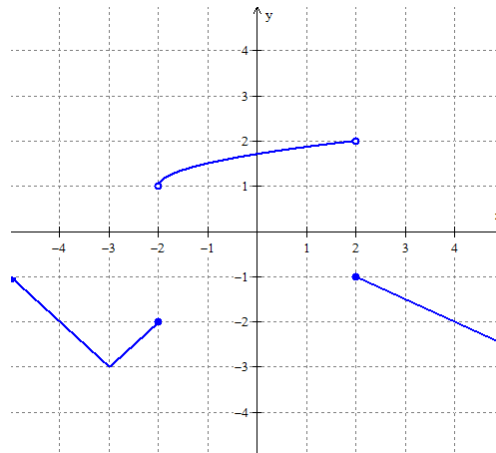
b.  $f(0) =$

c.  $f(1) =$

d.  $f(2) =$

e.  $f(-4) =$

5.



a.  $f(-3) =$

b.  $f(4) =$

c.  $f(2) =$

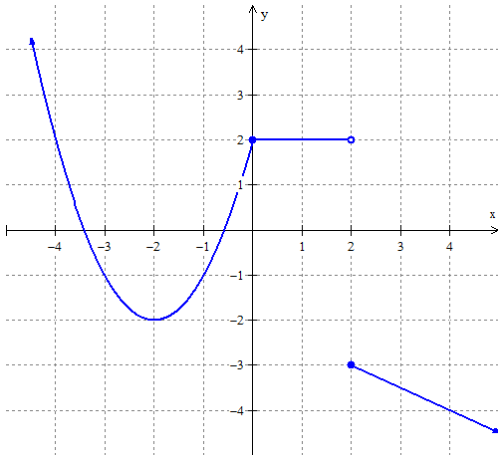
d.  $f(-2) =$

e.  $f(-4) =$

Use the piecewise function to evaluate the following.

Graph the following piecewise functions.

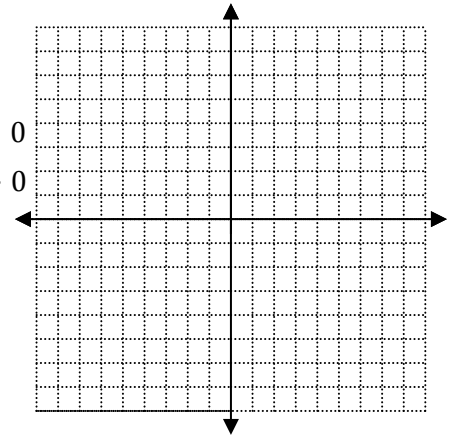
6.



- a.  $f(-3) =$
- b.  $f(0) =$
- c.  $f(2) =$
- d.  $f(4) =$
- e.  $f(-4) =$

7.

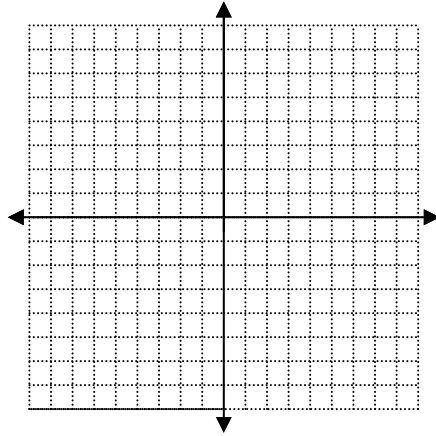
$$f(x) = \begin{cases} \frac{2}{3}x + 1, & x \leq 0 \\ 5 - 2x, & x > 0 \end{cases}$$



Graph the following piecewise functions.

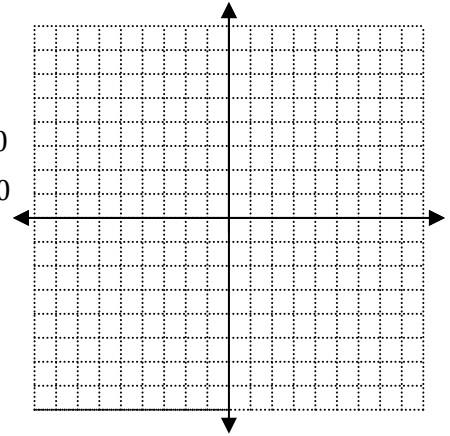
8.

$$f(x) = \begin{cases} 6 - \frac{1}{2}x, & x < 2 \\ 3x - 5, & x \geq 2 \end{cases}$$



9.

$$f(x) = \begin{cases} \frac{1}{3}x - 2, & x < 0 \\ 4 - x, & x \geq 0 \end{cases}$$



## Answers to Corrective Assignment

1.

- a. 3
- b.  $-\frac{2}{3}$
- c. 0
- d. 7

2.

- a. -1
- b.  $-\frac{1}{3}$
- c. 3
- d. 5

3.

- a. 8
- b.  $\frac{5}{3}$
- c. -60
- d. 5

4.

- a. 1
- b. -1
- c. -1
- d. 1
- e. 4

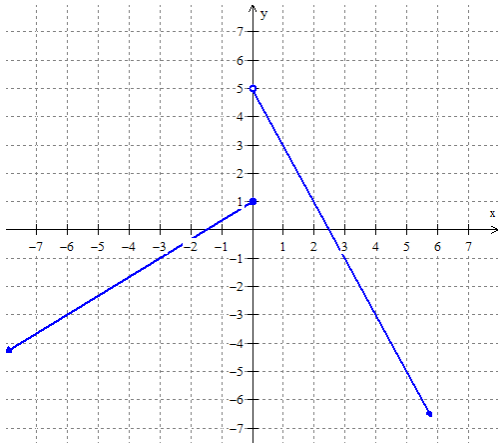
5.

- a. -3
- b. -2
- c. -1
- d. -2
- e. -2

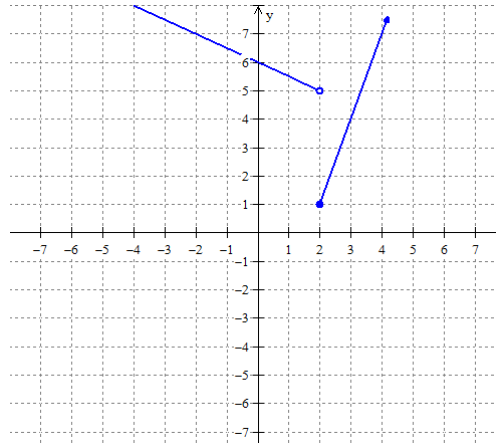
6.

- a. -1
- b. 2
- c. -3
- d. -4
- e. 2

7.



8.



9.

