Find f(-2).

$$f(x) = \begin{cases} -3x - 6 & \text{if } x < 2 \\ 3x + 1 & \text{if } x \geq 2 \end{cases}$$

Find f(-2).

$$f(x) = \begin{cases} -x & \text{if } x < -2 \\ 5x & \text{if } x \geq -2 \end{cases}$$

Find f(7).

$$f(x) = \begin{cases} 2x & \text{if } x < -1 \\ x + 5 & \text{if } -1 \leq x \leq 3 \\ -x + 6 & \text{if } x > 3 \end{cases}$$

Which piece of f do you use to find f(-5)?

$$f(x) = \begin{cases} -4x + 2 & \text{if } x < -3 \\ -2x + 6 & \text{if } -3 \leq x \leq 2 \\ 5x - 4 & \text{if } x > 2 \end{cases}$$

Find f(-3).

$$f(x) = \begin{cases} 7 & \text{if } x \leq -1 \\ -2x - 8 & \text{if } x > -1 \end{cases}$$

Find f(-5).

$$f(x) = \begin{cases} x + 8 & \text{if } x \leq 0 \\ -4x - 4 & \text{if } x > 0 \end{cases}$$

Find f(8).

$$f(x) = \begin{cases} 5x - 7 & \text{if } x < -2 \\ -8 & \text{if } -2 \leq x \leq 3 \\ 5x + 2 & \text{if } x > 3 \end{cases}$$

A parking garage charges $4 for up to 4 hours, plus $5 for each hour over 4. The cost is C(h). How many dollars does 6 hours cost?

$$C(h) = \begin{cases} 4 & \text{if } 0 < h \leq 4 \\ 4 + 5(h - 4) & \text{if } h > 4 \end{cases}$$

Piecewise Functions: Choosing the Right Piece · 2

ANSWER

-10

Piecewise Functions: Choosing the Right Piece · 1

ANSWER

0

Piecewise Functions: Choosing the Right Piece · 4

ANSWER

1

Piecewise Functions: Choosing the Right Piece · 3

ANSWER

-1

Piecewise Functions: Choosing the Right Piece · 6

ANSWER

3

Piecewise Functions: Choosing the Right Piece · 5

ANSWER

7

Piecewise Functions: Choosing the Right Piece · 8

ANSWER

14

Piecewise Functions: Choosing the Right Piece · 7

ANSWER

42

Find f(4).

$$f(x) = \begin{cases} 3x + 8 & \text{if } x \le 0 \\ -3x - 5 & \text{if } x > 0 \end{cases}$$

Find f(2).

$$f(x) = \begin{cases} 5x + 4 & \text{if } x \le 2 \\ 3x + 3 & \text{if } x > 2 \end{cases}$$

Find f(-6).

$$f(x) = \begin{cases} -2x - 6 & \text{if } x < -2 \\ -x - 4 & \text{if } -2 \le x \le 1 \\ -4x - 3 & \text{if } x > 1 \end{cases}$$

Which piece of f do you use to find f(5)?

$$f(x) = \begin{cases} -3x + 8 & \text{if } x < -4 \\ -2x - 1 & \text{if } -4 \le x \le 0 \\ -x - 4 & \text{if } x > 0 \end{cases}$$

Find f(0).

$$f(x) = \begin{cases} -5x + 5 & \text{if } x \le -3 \\ 2 & \text{if } x > -3 \end{cases}$$

Find f(-6).

$$f(x) = \begin{cases} 3x + 4 & \text{if } x \le -2 \\ 4x + 6 & \text{if } x > -2 \end{cases}$$

Find f(-2).

$$f(x) = \begin{cases} -x + 6 & \text{if } x < -5 \\ 4x - 8 & \text{if } -5 \le x \le -1 \\ -5x - 8 & \text{if } x > -1 \end{cases}$$

A parking garage charges $9 for up to 6 hours, plus $2 for each hour over 6. The cost is C(h). How many dollars does 3 hours cost?

$$C(h) = \begin{cases} 9 & \text{if } 0 < h \le 6 \\ 9 + 2(h - 6) & \text{if } h > 6 \end{cases}$$

Piecewise Functions: Choosing the Right Piece · 10

ANSWER

14

Piecewise Functions: Choosing the Right Piece · 9

ANSWER

-17

Piecewise Functions: Choosing the Right Piece · 12

ANSWER

3

Piecewise Functions: Choosing the Right Piece · 11

ANSWER

6

Piecewise Functions: Choosing the Right Piece · 14

ANSWER

-14

Piecewise Functions: Choosing the Right Piece · 13

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 16

ANSWER

9

Piecewise Functions: Choosing the Right Piece · 15

ANSWER

-16

Find f(0).

$$f(x) = \begin{cases} -x + 5 & \text{if } x < -1 \\ 4x - 4 & \text{if } -1 \le x \le 3 \\ 5x + 7 & \text{if } x > 3 \end{cases}$$

Find f(0).

$$f(x) = \begin{cases} -4x - 2 & \text{if } x \le 0 \\ 4x + 7 & \text{if } x > 0 \end{cases}$$

Find f(2).

$$f(x) = \begin{cases} 2x^2 + 2 & \text{if } x < 3 \\ -2x + 4 & \text{if } x \ge 3 \end{cases}$$

Find f(1) + f(-4).

$$f(x) = \begin{cases} -4x + 3 & \text{if } x < 0 \\ 4x - 8 & \text{if } x \ge 0 \end{cases}$$

Find the x-value where f(x) = 1.

$$f(x) = \begin{cases} 3 & \text{if } x \le -1 \\ -x + 1 & \text{if } x > -1 \end{cases}$$

A parking garage charges $5 for up to 4 hours, plus $3 for each hour over 4. The cost is C(h). How many dollars does 2 hours cost?

$$C(h) = \begin{cases} 5 & \text{if } 0 < h \le 4 \\ 5 + 3(h - 4) & \text{if } h > 4 \end{cases}$$

Find f(1).

$$f(x) = \begin{cases} 2x - 7 & \text{if } x < 0 \\ 5x + 2 & \text{if } 0 \le x \le 3 \\ -4x - 4 & \text{if } x > 3 \end{cases}$$

Which piece of f do you use to find f(0)?

$$f(x) = \begin{cases} 3x + 6 & \text{if } x < -1 \\ -5x - 8 & \text{if } -1 \le x \le 2 \\ 4x - 7 & \text{if } x > 2 \end{cases}$$

Piecewise Functions: Choosing the Right Piece · 18

ANSWER

-2

Piecewise Functions: Choosing the Right Piece · 17

ANSWER

-4

Piecewise Functions: Choosing the Right Piece · 20

ANSWER

15

Piecewise Functions: Choosing the Right Piece · 19

ANSWER

10

Piecewise Functions: Choosing the Right Piece · 22

ANSWER

5

Piecewise Functions: Choosing the Right Piece · 21

ANSWER

0

Piecewise Functions: Choosing the Right Piece · 24

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 23

ANSWER

7