Find f(-2).

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

Find f(-3).

$$f(x) = \begin{cases} 2x - 6 & \text{if } x \le -3 \\ -2x - 7 & \text{if } x > -3 \end{cases}$$

Find f(1).

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

Find f(-3) + f(-5).

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

Find the x-value where f(x) = -17.

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

A babysitter earns $15 per hour for up to 5 hours, and $18 for each hour over 5. Her pay is P(h) for h hours. How many dollars does she earn for 1 hour?

$$P(h) = \begin{cases} 15h & \text{if } 0 \le h \le 5 \\ 75 + 18(h - 5) & \text{if } h > 5 \end{cases}$$

Find f(-5).

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

Which piece of f do you use to find f(-2)?

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

Piecewise Functions: Choosing the Right Piece · 2

ANSWER

-12

Piecewise Functions: Choosing the Right Piece · 1

ANSWER

5

Piecewise Functions: Choosing the Right Piece · 4

ANSWER

5

Piecewise Functions: Choosing the Right Piece · 3

ANSWER

3

Piecewise Functions: Choosing the Right Piece · 6

ANSWER

15

Piecewise Functions: Choosing the Right Piece · 5

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 8

ANSWER

1

Piecewise Functions: Choosing the Right Piece · 7

ANSWER

23

Find f(0).

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

Find f(-4).

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

Find f(7).

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

Find f(1) + f(-6).

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

Find the x-value where f(x) = -10.

$$f(x) = \begin{cases} 6 & \text{if } x \le 0 \\ -2x - 2 & \text{if } x > 0 \end{cases}$$

A phone plan charges $19 each month for up to 2 gigabytes, plus $3 for each gigabyte over 2. The cost is C(g). How many dollars does 7 gigabytes cost?

$$C(g) = \begin{cases} 19 & \text{if } 0 < g \le 2 \\ 19 + 3(g - 2) & \text{if } g > 2 \end{cases}$$

Find f(-5).

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

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

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

Piecewise Functions: Choosing the Right Piece · 10

ANSWER

7

Piecewise Functions: Choosing the Right Piece · 9

ANSWER

4

Piecewise Functions: Choosing the Right Piece · 12

ANSWER

-5

Piecewise Functions: Choosing the Right Piece · 11

ANSWER

53

Piecewise Functions: Choosing the Right Piece · 14

ANSWER

34

Piecewise Functions: Choosing the Right Piece · 13

ANSWER

4

Piecewise Functions: Choosing the Right Piece · 16

ANSWER

1

Piecewise Functions: Choosing the Right Piece · 15

ANSWER

23

Find f(8).

$$f(x) = \begin{cases} 3x - 4 & \text{if } x < 0 \\ 5x - 8 & \text{if } 0 \le x \le 3 \\ -3x & \text{if } x > 3 \end{cases}$$

Find f(0).

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

Find f(0).

$$f(x) = \begin{cases} 5x - 8 & \text{if } x \le -4 \\ 2x^2 + 2 & \text{if } x > -4 \end{cases}$$

Find f(9) + f(2).

$$f(x) = \begin{cases} -2x + 1 & \text{if } x < 4 \\ 2x - 1 & \text{if } x \ge 4 \end{cases}$$

Find the x-value where f(x) = -6.

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

A babysitter earns $16 per hour for up to 3 hours, and $21 for each hour over 3. Her pay is P(h) for h hours. How many dollars does she earn for 5 hours?

$$P(h) = \begin{cases} 16h & \text{if } 0 \le h \le 3 \\ 48 + 21(h - 3) & \text{if } h > 3 \end{cases}$$

Find f(-4).

$$f(x) = \begin{cases} -5x - 2 & \text{if } x < -2 \\ 0 & \text{if } -2 \le x \le 3 \\ 5x - 8 & \text{if } x > 3 \end{cases}$$

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

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

Piecewise Functions: Choosing the Right Piece · 18

ANSWER

7

Piecewise Functions: Choosing the Right Piece · 17

ANSWER

-24

Piecewise Functions: Choosing the Right Piece · 20

ANSWER

14

Piecewise Functions: Choosing the Right Piece · 19

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 22

ANSWER

90

Piecewise Functions: Choosing the Right Piece · 21

ANSWER

-1

Piecewise Functions: Choosing the Right Piece · 24

ANSWER

1

Piecewise Functions: Choosing the Right Piece · 23

ANSWER

18