Find f(1).

$$f(x) = \begin{cases} 4x + 3 & \text{if } x < 0 \\ 4x + 6 & \text{if } x \geq 0 \end{cases}$$

Which piece of f do you use to find f(-3)?

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

Find f(7).

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

Find f(-9).

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

Find f(-5).

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

Which piece of f do you use to find f(4)?

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

Find f(-7).

$$f(x) = \begin{cases} 2x + 8 & \text{if } x < -4 \\ x + 6 & \text{if } x \geq -4 \end{cases}$$

Find f(-3).

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

Piecewise Functions: Choosing the Right Piece · 2

ANSWER

1

Piecewise Functions: Choosing the Right Piece · 1

ANSWER

10

Piecewise Functions: Choosing the Right Piece · 4

ANSWER

-1

Piecewise Functions: Choosing the Right Piece · 3

ANSWER

25

Piecewise Functions: Choosing the Right Piece · 6

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 5

ANSWER

0

Piecewise Functions: Choosing the Right Piece · 8

ANSWER

-6

Piecewise Functions: Choosing the Right Piece · 7

ANSWER

-6

Find f(1).

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

Which piece of f do you use to find f(6)?

$$f(x) = \begin{cases} 2x + 4 & \text{if } x < 1 \\ 3x + 3 & \text{if } x \geq 1 \end{cases}$$

Find f(2).

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

Find f(5).

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

Find f(-5).

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

Which piece of f do you use to find f(-1)?

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

Find f(-9).

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

Find f(-4).

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

Piecewise Functions: Choosing the Right Piece · 10

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 9

ANSWER

0

Piecewise Functions: Choosing the Right Piece · 12

ANSWER

-1

Piecewise Functions: Choosing the Right Piece · 11

ANSWER

11

Piecewise Functions: Choosing the Right Piece · 14

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 13

ANSWER

-17

Piecewise Functions: Choosing the Right Piece · 16

ANSWER

-11

Piecewise Functions: Choosing the Right Piece · 15

ANSWER

-24

Find f(-2).

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

Find f(3).

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

Find f(5).

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

Which piece of f do you use to find f(-9)?

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

Find f(-7).

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

Find f(2).

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

Find f(-5).

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

A babysitter earns $16 per hour for up to 7 hours, and $19 for each hour over 7. Her pay is P(h) for h hours. How many dollars does she earn for 12 hours?

$$P(h) = \begin{cases} 16h & \text{if } 0 \le h \le 7 \\ 112 + 19(h - 7) & \text{if } h > 7 \end{cases}$$

Piecewise Functions: Choosing the Right Piece · 18

ANSWER

-11

Piecewise Functions: Choosing the Right Piece · 17

ANSWER

-4

Piecewise Functions: Choosing the Right Piece · 20

ANSWER

1

Piecewise Functions: Choosing the Right Piece · 19

ANSWER

2

Piecewise Functions: Choosing the Right Piece · 22

ANSWER

0

Piecewise Functions: Choosing the Right Piece · 21

ANSWER

-2

Piecewise Functions: Choosing the Right Piece · 24

ANSWER

207

Piecewise Functions: Choosing the Right Piece · 23

ANSWER

-17