

Identify by letter (A, B, C, D) the piece in which  $f(-3)$  resides.

Identify by letter (A, B, C, D) the piece in which  $f(9)$  resides.

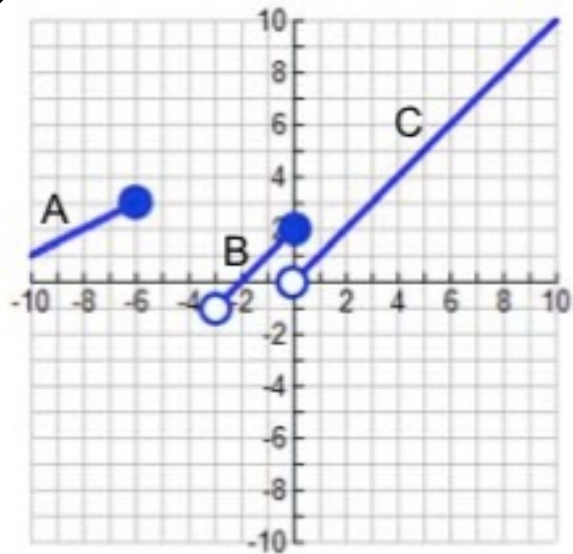
Identify by letter (A, B, C, D) the piece in which  $f(3)$  resides.

For what values of  $x$  on  $[-10, 10]$  is  $f(x)$  not defined?

Find the value of  $f(-4)$ .

Find the value of  $f(3)$ .

Find the value of  $f(8)$ .



Identify by letter (A, B, C) the piece in which  $g(0)$  resides.

Identify by letter (A, B, C) the piece in which  $g(3)$  resides.

Identify by letter (A, B, C) the piece in which  $g(-8)$  resides.

For what values of  $x$  on  $[-10, 10]$  is  $g(x)$  not defined?

Find the value of  $g(-3)$ .

Find the value of  $g(0)$ .

Find the value of  $g(4)$ .

$$h(x) = \begin{cases} 2x-3 & x < -7 & \text{A} \\ -2x+4 & -7 \leq x \leq 4 & \text{B} \\ x+5 & 5 < x \leq 7 & \text{C} \\ x-7 & x > 7 & \text{D} \end{cases}$$

- . Identify by letter (A, B, C, D) the piece in which  $h(6)$  resides.
- . Identify by letter (A, B, C, D) the piece in which  $h(-7)$  resides.
- . Identify by letter (A, B, C, D) the piece in which  $h(12)$  resides.
- . For what values of  $x$  is  $h(x)$  not defined?
- . Find the value of  $h(7)$ .                      Find the value of  $h(10)$ .                      Find the value of  $h(-7)$ .

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$$k(x) = \begin{cases} -3x+4 & x < -4 & \text{A} \\ x^2+5 & -4 < x < 3 & \text{B} \\ 6x-1 & 3 \leq x \leq 7 & \text{C} \\ 6 & x > 7 & \text{D} \end{cases}$$

- . Identify by letter (A, B, C, D) the piece in which  $k(0)$  resides.
- . Identify by letter (A, B, C, D) the piece in which  $k(3)$  resides.
- . Identify by letter (A, B, C, D) the piece in which  $k(9)$  resides.
- . For what values of  $x$  is  $k(x)$  not defined?
- . Find the value of  $k(-5)$ .                      Find the value of  $k(7)$ .                      Find the value of  $k(12)$ .

The admission rates at an amusement park are as follows:

- Children 5 years old and under: free
- Children between 5 and 12 years: \$10
- Children between 12 (inclusive) and 18 years: \$25
- Adults 18 and over: \$35

Create a piecewise function  $a(x)$  where  $a(x)$  represents the admission rate and  $x$  represents the age of the person. and graph it