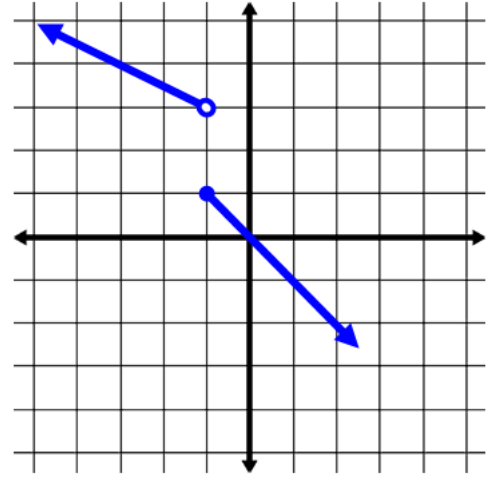


Writing Piecewise Functions/
Piecewise Characteristics

1. Write the equation for the piecewise function whose graph is shown.

$$f(x) = \begin{cases} \underline{\hspace{4cm}} \\ \underline{\hspace{4cm}} \end{cases}$$

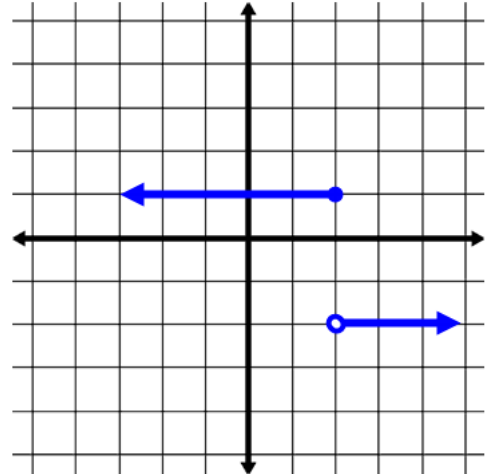


Analyze the characteristics of the function shown in the graph.

- a. domain: _____
- b. range: _____
- c. x-intercept(s): _____
- d. y-intercept: _____
- e. interval of increase: _____
- f. interval of decrease: _____
- g. point(s) of discontinuity: _____

2. Write the equation for the piecewise function whose graph is shown.

$$f(x) = \begin{cases} \underline{\hspace{4cm}} \\ \underline{\hspace{4cm}} \end{cases}$$

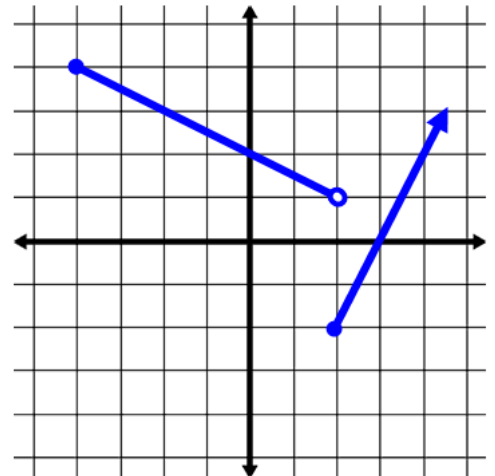


Analyze the characteristics of the function shown in the graph.

- a. domain: _____
- b. range: _____
- c. x-intercept(s): _____
- d. y-intercept: _____
- e. interval of increase: _____
- f. interval of decrease: _____
- g. point(s) of discontinuity: _____

3. Write the equation for the piecewise function whose graph is shown.

$$f(x) = \begin{cases} \underline{\hspace{4cm}} \\ \underline{\hspace{4cm}} \end{cases}$$



Analyze the characteristics of the function shown in the graph.

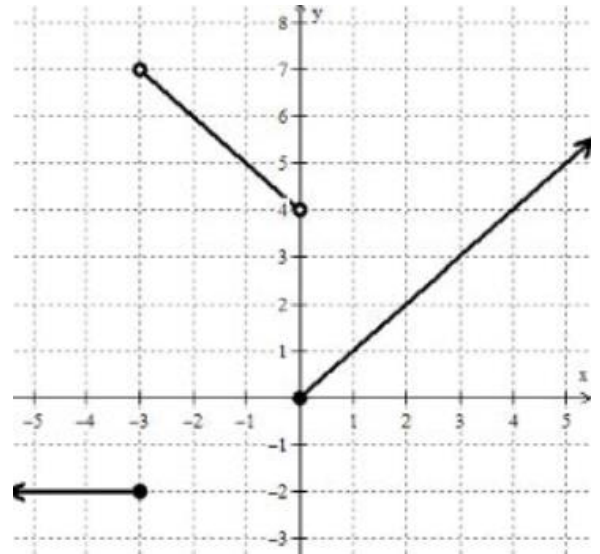
- a. domain: _____
- b. range: _____
- c. x-intercept(s): _____
- d. y-intercept: _____
- e. interval of increase: _____
- f. interval of decrease: _____
- g. point(s) of discontinuity: _____

4. Write the equation for the piecewise function whose graph is shown.

$$f(x) = \begin{cases} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{cases}$$

Analyze the characteristics of the function shown in the graph.

- domain: _____
- range: _____
- x-intercept(s): _____
- y-intercept: _____
- interval of increase: _____
- interval of decrease: _____
- point(s) of discontinuity: _____



5. Write the equation for the piecewise function whose graph is shown.

$$f(x) = \begin{cases} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{cases}$$

Analyze the characteristics of the function shown in the graph.

- domain: _____
- range: _____
- x-intercept(s): _____
- y-intercept: _____
- interval of increase: _____
- interval of decrease: _____
- point(s) of discontinuity: _____

