

8.3 Piecewise Functions

8.3 Practice

Use the piecewise function to evaluate the following.

1.

$$f(x) = \begin{cases} -2x^2 - 1, & x \leq 2 \\ 4 \\ \frac{4}{5}x - 4, & x > 2 \end{cases}$$

$$a. f(0) = -2(0)^2 - 1$$

$$= 0 - 1$$

$$\boxed{f(0) = -1}$$

$$b. f(5) = \frac{4}{5}(5) - 4$$

$$= 4 - 4$$

$$\boxed{f(5) = 0}$$

$$c. f(2) = -2(2)^2 - 1$$

$$= -2(4) - 1$$

$$= -8 - 1$$

$$\boxed{f(2) = -9}$$

$$d. f(-3) = -2(-3)^2 - 1$$

$$= -2(9) - 1$$

$$= -18 - 1$$

$$\boxed{f(-3) = -19}$$

2.

$$f(x) = \begin{cases} x^3 - 7x, & x \leq -3 \\ 8, & -3 < x \leq 3 \\ 77, & x > 3 \end{cases}$$

$$a. f(-5) = (-5)^3 - 7(-5)$$

$$= -125 + 35$$

$$\boxed{f(-5) = -90}$$

$$\boxed{f(11) = 77}$$

$$c. f(0) = 8$$

$$d. f(3) = 8$$

These are super easy when the functions are constant! No work!

Graph the following piecewise functions.

3.

$$f(x) = \begin{cases} 2x + 3, & x \leq 0 \\ -\frac{1}{2}x - 1, & x > 0 \end{cases}$$



4.

$$f(x) = \begin{cases} -\frac{1}{3}x + 5, & x > 3 \\ 2, & x \leq 3 \end{cases}$$



5.

$$f(x) = \begin{cases} 4 - x, & x < 2 \\ 2x - 6, & x \geq 2 \end{cases}$$



6.

$$f(x) = \begin{cases} -3, & x \leq 0 \\ -1, & 0 < x \leq 2 \\ 1, & 2 < x \leq 4 \\ 3, & x \geq 4 \end{cases}$$



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