

Do Now

- Directions: 1) Find the domain and range of each function.
2) Find the value of each function when given the value of x.

1)

f(x)	g(x)	h(x)
<p>Domain: All reals or $\{x/x \in \mathbb{R}\}$ or $(-\infty, \infty)$ Range: $\{y/y \geq -3\}$ or $[-3, \infty)$</p>	<p>Domain: $\{x/-3 \leq x < 4\}$ or $[-3, 4)$ Range: $\{y/-3 \leq y \leq 0$ or $1 \leq y \leq 2\}$ or $[-3, 0] \cup [1, 2]$</p>	<p>Domain: All reals or $\{x/x \in \mathbb{R}\}$ or $(-\infty, \infty)$ Range: $\{y/y \geq 0\}$ or $[0, \infty)$</p>

- 2) Find the value of each using the piece wise function graphs above.

f(2) = <u>1</u>	g(0) = <u>0</u>	h(2) = <u>3</u>
f(1) = <u>-2</u>	g(1) = <u>1</u>	h(1) = <u>1</u>
f(0) = <u>-3</u>	g(-1) = <u>-1</u>	h(0) = <u>0</u>
f(-1) = <u>-2</u>	g(-2) = <u>-2</u>	h(-2) = <u>4</u>
f(-4) = <u>1</u>	g(-3) = <u>-3</u>	h(3) = <u>3</u>

Find the value of x:
f(x) = -3

x = 0

Find the value of x:
g(x) = -2

x = -2

Find the value of x:

h(x) = 0

x = 0

h(x) = 1

x = -1 + 1