

Warm Up-

1. Sketch a graph of the following situation

A person on a run in the morning is traveling to the coffee shop and then home. On the way to the coffee shop they stop twice and then on the way home they stop once. Create a graph of their speed vs time and then their distance from home vs time.

Warm Up-

2. Are the following relations functions? Why?

a) $\{(2,4), (0,3), (1,4), (-2,3)\}$

yes, the domain
does not repeat

b) $\{(-5,7), (-3,3), (0,-1), (-3,2), (-1,7)\}$

no, -3 is sent to 3 & 2

Warm Up-

3. Find the range for $f(x) = -2x + 1$ for the domain: $\{-4, -1, 0, 3\}$

$$-2(-4) + 1 = 9$$

$$-2(-1) + 1 = 3$$

$$-2(0) + 1 = 1$$

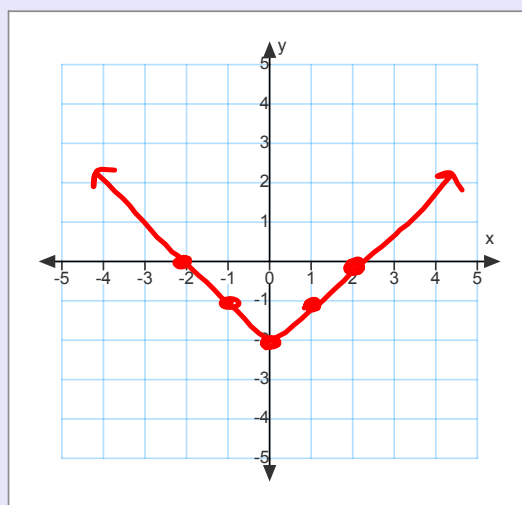
$$-2(3) + 1 = -5$$

$$R: \{9, 3, 1, -5\}$$

4. Graph the function by making a table.

$$f(x) = |x| - 2$$

x		y
-2	$ -2 - 2$	0
-1	$ -1 - 2$	-1
0	$ 0 - 2$	-2
1	$ 1 - 2$	-1
2	$ 2 - 2$	0



Domain: $(-\infty, \infty)$

Range: $[-2, \infty)$

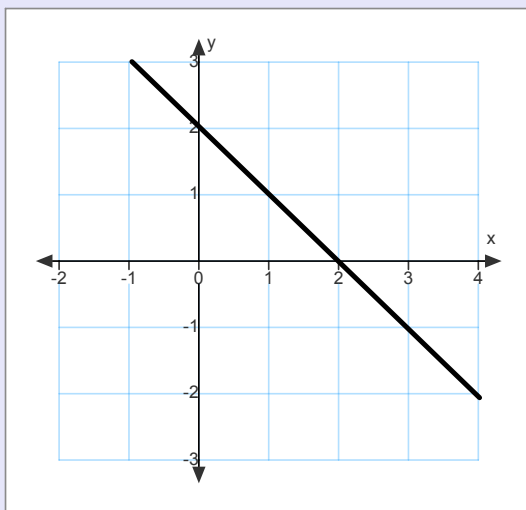
y-int: $(0, -2)$

x-int: $(-2, 0)$

$(2, 0)$

Homework Answers and Questions

Pg 272 #1-21, 27, 37-39



X	
-1	3
0	2
1	1
2	0
3	-1
4	-2

Handwritten red arrows indicate a slope of -1, starting from the point (2, 0) and moving down 1 unit for every 1 unit right.

Handwritten red arrow indicating a slope of -1, starting from the point (2, 0) and moving down 1 unit for every 1 unit right.

$$y = -x + 2$$

$$-2 + 2$$

$$A(r) = \pi r^2$$

Topics on your test...

5.1- sketch graphs
describe graphs

5.2- function? yes, no, why?
mapping diagrams

5.3- graphing, tables, evaluating
domain & range $f(6)$

5.4- x & y intercepts

write rules given table

HW: pg 299 #8-31