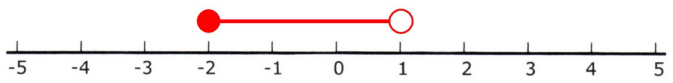
Interval Notation

[or (Smallest value , Biggest value) or]

This end has either
[used if small end is a closed circle
or
(used if small end is an open circle
or an arrow.

This end has either
[used if big end is a closed circle
or
(used if big end is an open circle
or an arrow.

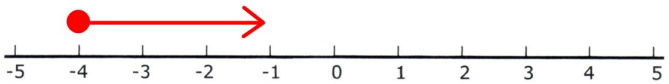
Inequality Notation vs. Interval Notation



Inequality Notation $-2 \leq x < 1$

Interval Notation $[-2, 1)$

Inequality Notation vs. Interval Notation



Inequality Notation $x \geq -4$

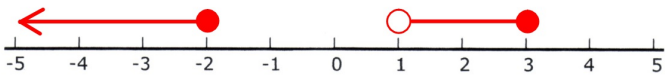
Interval Notation $[-4, \infty)$

Inequality Notation vs. Interval Notation

Inequality Notation $x < 3$

Interval Notation $(-\infty, 3)$

Inequality Notation vs. Interval Notation



Inequality Notation $x \leq -2 \text{ , } 1 < x \leq 3$

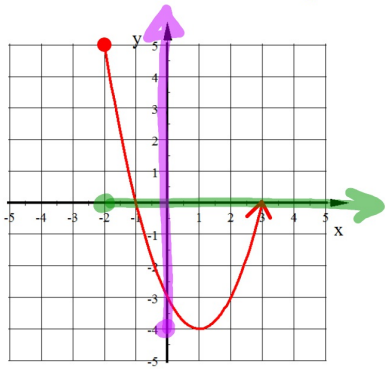
Interval Notation $(-\infty, -2] \cup (1, 3]$

All Real Numbers:

Symbol: $\mathbb{R}$

Interval Notation: $(-\infty, \infty)$

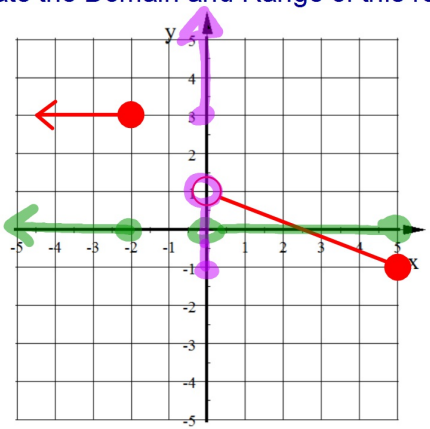
State the Domain and Range of this relation using interval notation.



Domain: $[-2, \infty)$

Range: $[-4, \infty)$

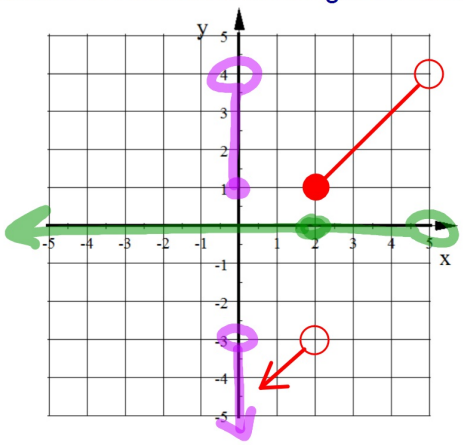
State the Domain and Range of this relation using interval notation.



Domain: $(-\infty, -2] \cup (0, 5]$

Range: $[-1, 1) \cup [3, \infty)$

State the Domain and Range of this relation using interval notation.



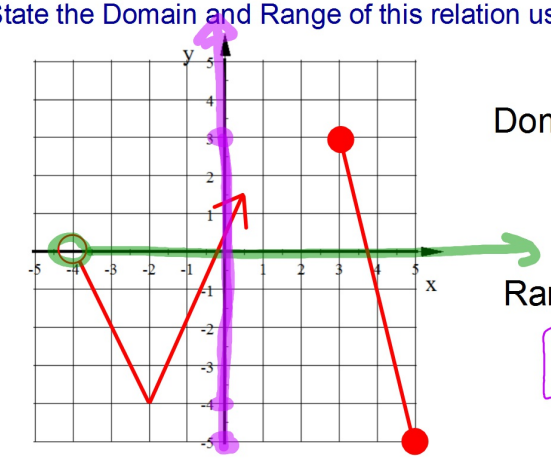
Domain:

$(-\infty, 5)$

Range:

$(-\infty, -3) \cup [1, 4)$

State the Domain and Range of this relation using interval notation.



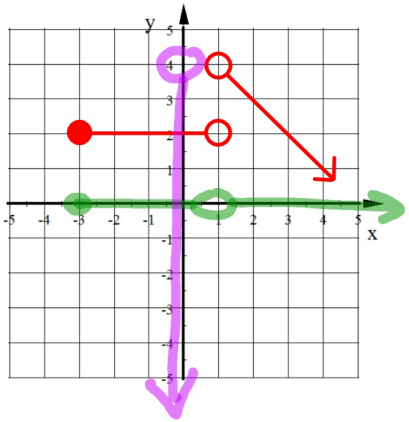
Domain:

$(-4, \infty)$

Range:

$[-5, \infty)$

State the Domain and Range of this relation using interval notation.



Domain:

$[-3, 1) \cup (1, \infty)$

Range:

$(-\infty, 4)$

You can now finish Hwk #3: Practice Sheet.

Due tomorrow