MAT122

Domain/Range from a Graph

Identify Domain/Range from a Graph
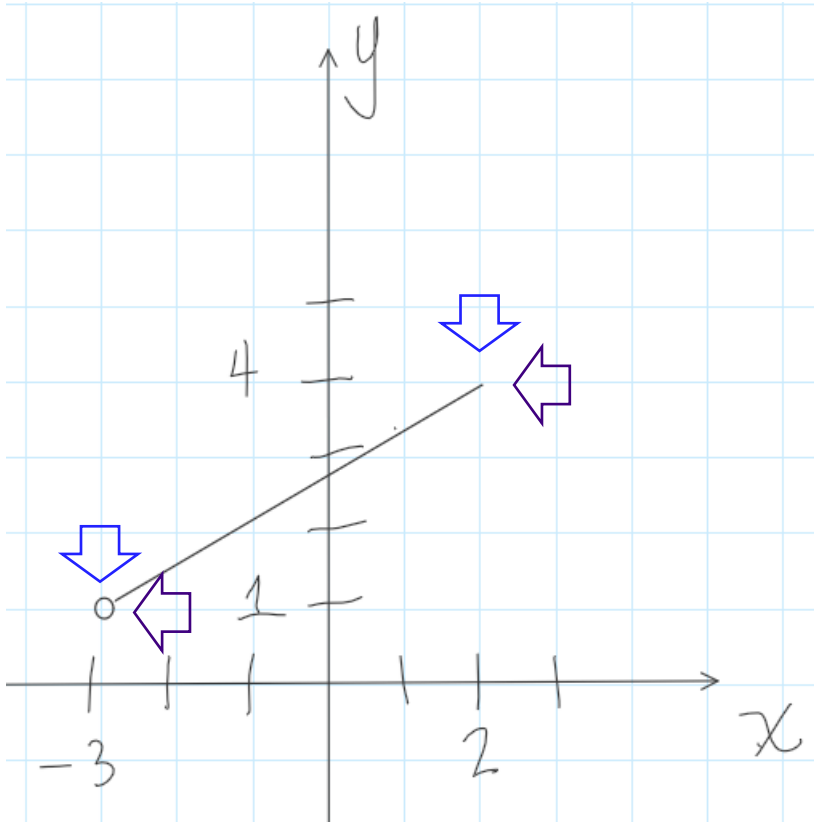
Compound Inequality:

don't include –3   include 2

domain: $-3 < x \le 2$

x is between -3 and 2

range: $1 < y \le 4$

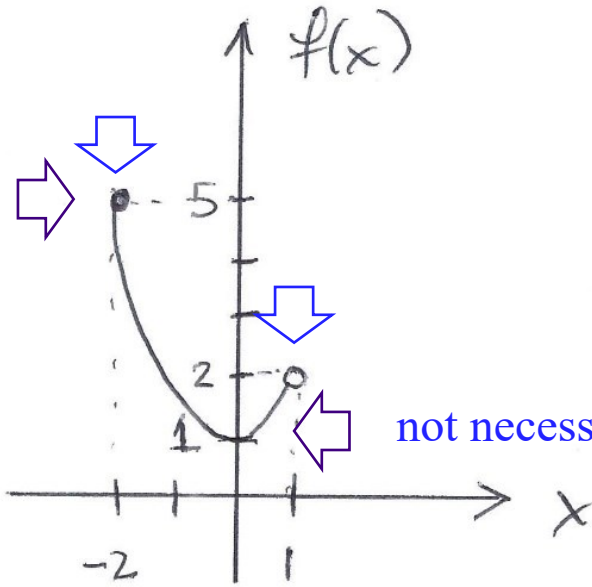y-values are between 1 and 4

Interval Notation

use parentheses for open circle
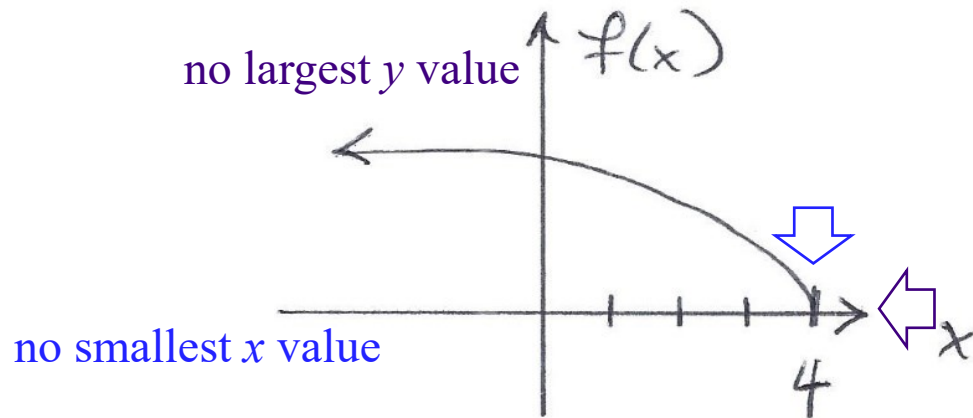
$(-3, 2]$

use bracket for closed circle

$(1, 4]$

Identify Domain/Range from a Graph (cont'd)

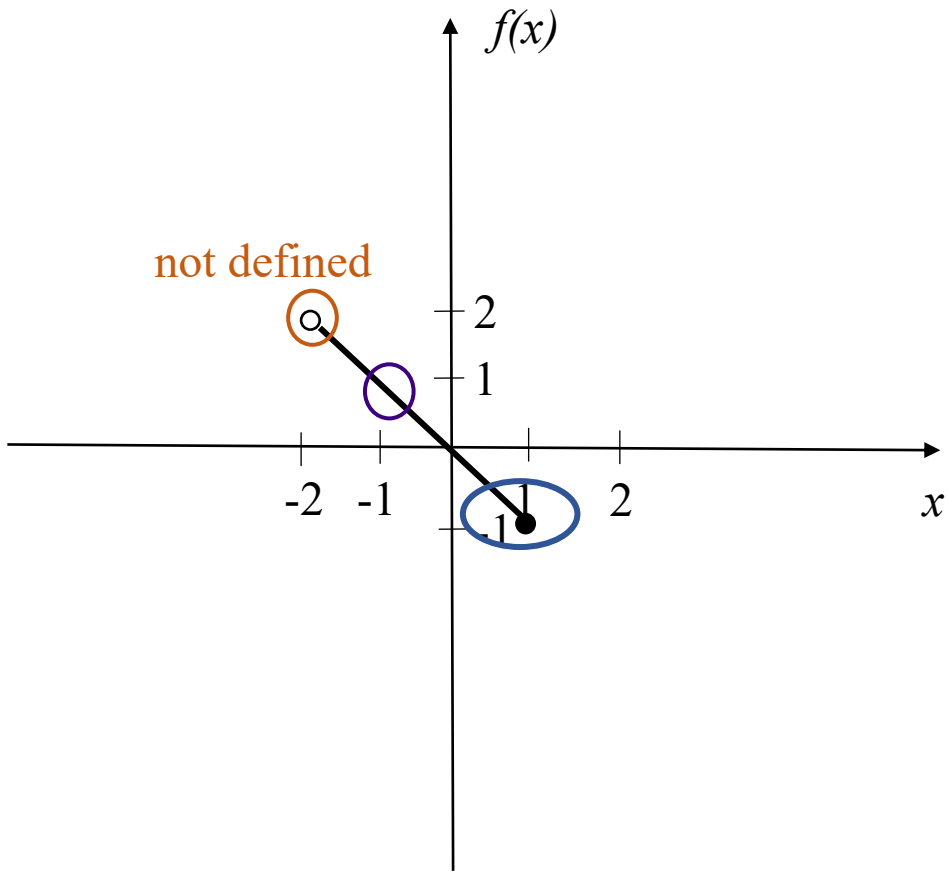domain: $[-2,1)$

range: $[1,5]$

not necessarily at an endpoint

no largest y value

no smallest x value

use parenthesis for either infinity

domain: $(-\infty, 4]$

range: $[0, \infty)$

Identify Values on a Graph

For what x-value is …

$$…f(x) = -1? \quad x = 1$$

$$…f(x) = 1? \quad x = -1$$

$$…f(x) = 2? \quad \text{none}$$

not defined