

## 8.2 Introduction to Functions

Name \_\_\_\_\_

Function and function notation for an equation

$\{(1, -2), (0, 4), (-7, -8), (2, -2)\}$

$$f(x) = 2x - 9$$

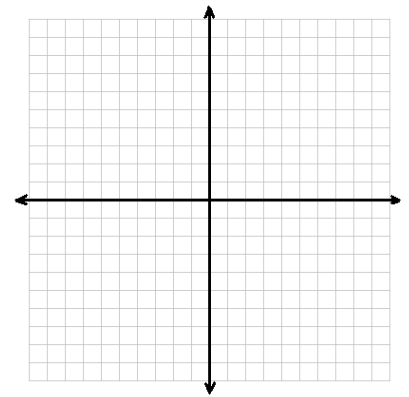
Vertical line test

Given  $f(x) = 2x - 9$  Find  $f(3)$

Relation

Domain or the independent variable

Range or the dependent variable



Set builder notation

Interval Notation

Find domains and ranges:

$$f(x) = -x + 4$$

$$g(x) = \frac{1}{2x - 6}$$

$$h(x) = x^2 - 9$$

$$j(x) = |-x + 1| - 3$$