

8.7

FUNCTIONS DEFINED BY EQUATIONS

Vocabulary

Function

Domain

Range

Notation in Functions

Input	Output
Domain	Range

NOTE: the variables in functions don't have to be "x" or "y"

Understanding function notation

- 1) List the range of $f : t \rightarrow 4t - 3$ if the domain $D = \{0,1,2,3\}$.

t	$4t - 3$

Understanding function notation

Given $g : x \rightarrow \frac{12}{2x+1}$, find:

2) $g(1)$

3) $g(-1)$

4) $g(2)$

Practice

5) Find the range: $f : x \rightarrow 3x - 2$
 $D = \{-7, 0, 5\}$

6) Find the range: $g : x \rightarrow \frac{x^2 + 2}{x - 3}$
 $D = \{2, 4, 5\}$

Practice

Given $g : x \rightarrow 4x - x^2$, find:

7) $g(-1)$

8) $g(0)$

9) $g(3)$