

Unit 4: Relations and Functions

4.4 Graphing Relations

Graph the relation  $y = 2x - 6$

- Sketch the graph.
- Write an appropriate window.
- Determine the value of y when x = 10.  
 $y = 14$
- Determine the value of x when y = 8.75.  
 $x = 7.375$
- State the x and y intercept.  
 $(0, -6)$   $(3, 0)$
- Determine the domain and range.  
D:  $\{x \in \mathbb{R}\}$   
R:  $\{y \in \mathbb{R}\}$

\*Won't be tested on this until Unit 5

Unit 4: Relations and Functions

Steps to Graph:

TI-Nspire

- B: Graph.
- MENU--3: Graph Entry--1: Function
- $f1(x) = 2x - 6$  (this just means  $y = 2x - 6$ )
- ENTER

\*to find things on your graph everything is under MENU-- Analyze Graph.

TI-84 (Plus)

- y= button.
- $y_1 = 2x - 6$
- GRAPH

\*to find things on your graph everything is under 2nd Trace