

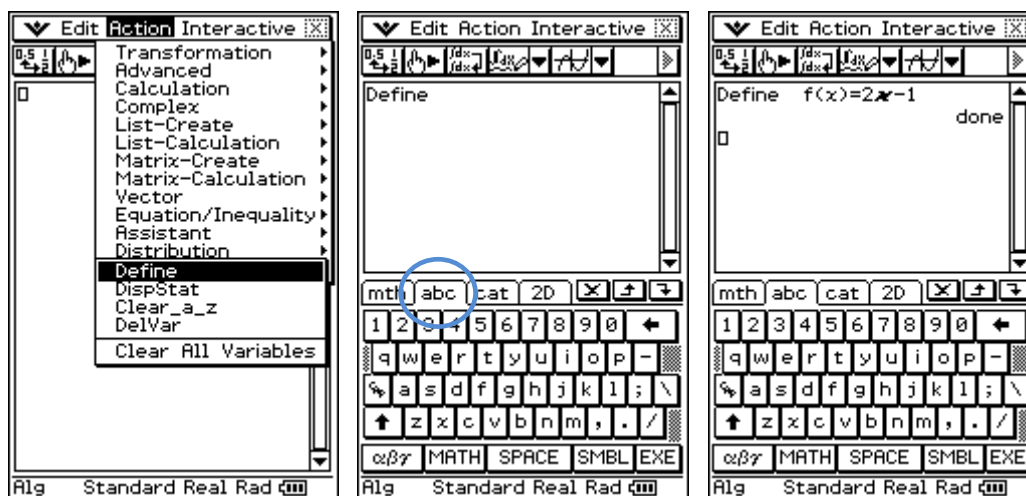
Function Notation Review

Name: _____

Date: _____

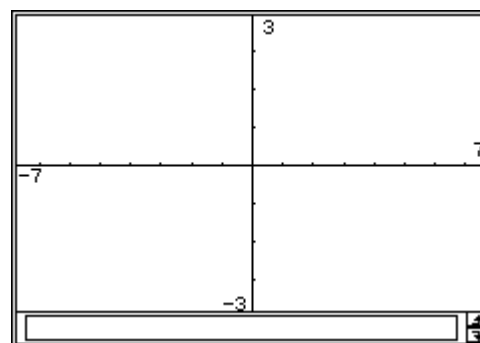
To get started, you will need to do the following:

- Open Main and select **Action/Command/Define**
- Press the big **Keyboard** button to open the soft keyboard and then tap the **abc** tab
- Use both the soft abc keyboard and the keypad to input **f(x)=2x-1**



- Define $f(x) = 2x-1$** , complete the following table, graph $f(x)$ and label each ordered pair on the graph.
[Hint: To graph $f(x)$, tap the $\$$ button. Next, select, release and then drag $f(x)$ to the graph window.
Selecting all of $f(x)=2x-1$ will give you an error.]

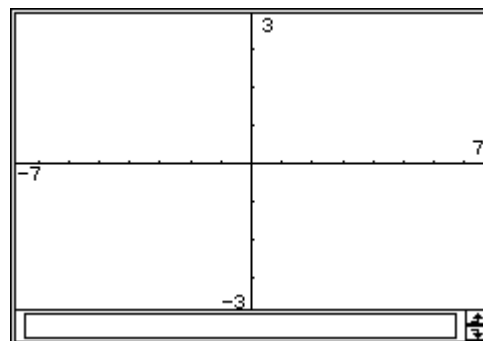
Using CP (type in and press EXE)	By Hand	Ordered Pair
$f(-2) = -5$	$f(-2)=2(-2)-1$ $=-4-1$ $= -5$	$(-2, -5)$
$f(0) =$	$f(0) =$	
$f(2)=$	$f(2)=$	



2. **Redefine $f(x)$ by editing $2x-1$ to be $-2x+1$** , complete the following table, graph $f(x)$ and label each ordered pair on the graph. [Hint: To graph $f(x)$, select it, release and then drag it again to the graph window.]

For $f(x) = -2x+1$

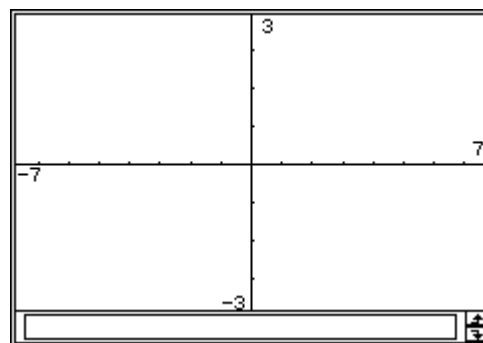
Using CP	By Hand	Ordered Pair
$f(-2) =$	$f(-2) =$	$(-2, 5)$
$f(0) =$	$f(0) =$	
$f(2) =$	$f(2) =$	



3. **Redefine $f(x)$ by editing $2x-1$ to be $1/(x+1)$** , complete the following table, graph $f(x)$ and label each ordered pair on the graph. [Hint: To graph $f(x)$, select it, release and then drag it again to the graph window.]

For $f(x) = 1/(x+1)$

Using CP	By Hand	Ordered Pair
$f(-3) =$	$f(-3) =$	$(-3, -1/2)$
$f(-2) =$	$f(-2) =$	
$f(-1) =$	$f(-1) =$	
$f(0) =$	$f(0) =$	
$f(1) =$	$f(1) =$	



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4. For a function, the input value is part of the _____ and the right side value is part of the _____. [domain/range]

5. Given $g(x)=1/(x+2)$

For what x-value is g(x) undefined?

6. Redefine $f(x) = 3x-2$

a. Evaluate: $f(2a) =$ _____

b. Evaluate: $2f(a) =$ _____

c. Explain why $f(2a)$ does not equal $2f(a)$.

7. Redefine $f(x)=x^2-1$

a. Evaluate: $f(-3)=$ _____

b. Evaluate: $f(x+2) =$ _____

c. Can you explain or show how to get the answer for b?

8. Given the graph of $g(x)$, complete the following:

a. $g(0) =$ _____

b. $g(3) =$ _____

c. $g(x) = 0$ when $x =$ _____

or when $x =$ _____

