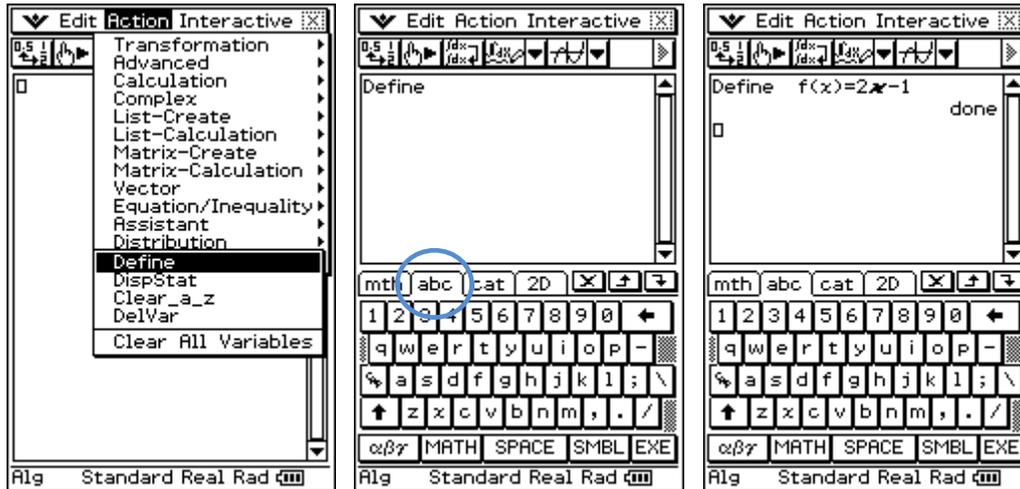


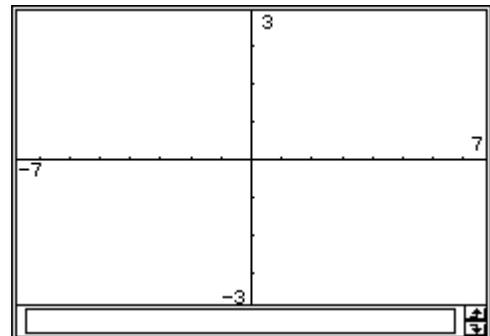
To get started, you will need to do the following:

- 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.]

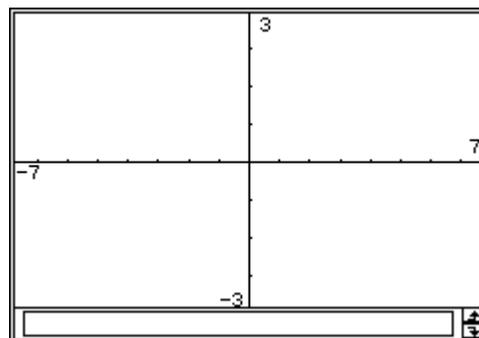
Using CP (type in and press EXE)	By Hand	Ordered Pair
$f(-2) = -5$	$f(-2)=2(-2)-1$ $=-4-1$ $= -5$	$(-2, -5)$
$f(0) =$	$f(0) =$	
$f(2)=$	$f(2)=$	



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

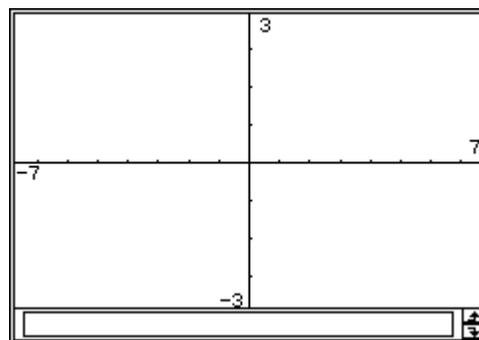
Using CP	By Hand	Ordered Pair
$f(-2) =$	$f(-2)=$	$(-2, 5)$
$f(0) =$	$f(0) =$	
$f(2)=$	$f(2)=$	



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  $f(x) = 3x-2$**
- Evaluate:  $f(2a) =$  \_\_\_\_\_
  - Evaluate:  $2f(a) =$  \_\_\_\_\_
  - Explain why  $f(2a)$  does not equal  $2f(a)$ .

7. **Redefine  $f(x)=x^2-1$**
- Evaluate:  $f(-3)=$  \_\_\_\_\_
  - Evaluate:  $f(x+2) =$  \_\_\_\_\_
  - Can you explain or show how to get the answer for b?

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

- $g(0) =$  \_\_\_\_\_
- $g(3) =$  \_\_\_\_\_
- $g(x) = 0$  when  $x =$  \_\_\_\_\_  
or when  $x =$  \_\_\_\_\_

