## Part 1: Getting to know your calculator: TI 84 Plus or TI 84 Plus CE



1. On/Off
$\square$ I can turn my calculator on and off
2. Fraction button
$\square$ I know how to get to the fraction button two ways

* alpha or $\quad$| alpha |
| :---: |
| $X, T, \theta, n$ |

$y=$
3. Add +

I know where the add button is
I showed it by doing \#1-5
4. Subtract -

I know where the subtract button is
I showed it by doing \#6-10
5. Multiply $\times$

I know where the multiply button is
I showed it by doing \#11-15
6. Divide $\div$
$\square$ I know where the divide button is
I showed it by doing \#16-20
7. Recall buttons
$\square$ I will use 2 nd, enter to pull up a previous line I will use 2nd, (-) to pull up the previous answer
8. Exponent $x^{2}$

I know where the squared button is
$\square$ I know where the "carrot" button is to enter any exponent I showed it by doing \#21-25
9. Radical $\sqrt{x}$

I know where the square root button is
I know that under the math key there is a cube root, and any
root key
I showed it by doing \#26-28
10. Variables $x, y, z, a, b, c \ldots$
$\square \mathrm{I}$ know where the X key is (AND WILL USE IT OFTEN)
11. 2nd mode/quit

I know I can use 2nd mode/quit commands anytime to return to the home screen
12. Store Value

I know how to store a number as $x$ and use it to check my answer
$\square$ I showed it by doing \#29
13. Enter equation into $y=$

I can enter an equation into $y_{1}, y_{2}$ or any of the others
I showed it by doing \#30
a. Graph

I know how to graph on a standard xy-plane

* zoom

6: ZStandard
I know where the window button is
b. Graph command center

I know how to get to the graph command center and use the first one

+ $2 n d$ trace/calc
c. Table

I know how to open the table

* $2 n d$ window
I know where the table set button is

SA Part 2 Notes
Sunday, May 19, 2019 5:49 PM
Part 2: Getting to know the FREE online
graphing calculator: DESMOS
Go to: https://learn.desmos.com/graphing Watch and Learn!

1. Watch the Intro video

2 min


## Below that video under "Next Steps"

2. Watch the
"Points" video
1 min
3. Watch
"Graph
1 m
"Keyboard Shortcuts"
1 min

4. Watch
"Tables"
1 min
5. Watch
"Functions"
1 min 25 sec
c $g(x)=x^{2}$
6. Watch
"Inequalities"
1 min 10 secs
7. Watch
"Restrictions" 1 min
8. Watch
"Sliders"
1 min

FUNCTIONS


INEQUALITIES



RESTRICTIONS
(2) $y=m x+b$
$m=3$
$b=-4$

SLIDERS

## Part 3: Algebra Vocab \& Solving One Step Equations

## Watch: https://www.youtube.com/watch?v=y BOvLU1G2U



## VOCAB

Equation an equation has an equal sign

Expression
$\lrcorner$ Variable a variable is a letter standing in for an unknown number
$\lrcorner$ Constant a constant is a standalone number, not attached to a variable

## Solving One-Step Equations

## ADDITION

Property of equality

If the same number is added to both sides of an equation, the two sides remain equal.

SUBTRACTION
Property of equality

If the same number is subtracted from both sides of an equation, the two sides remain equal.
Check
$x-5=10$
$15-5=10$
If $a=b$, then $a+c=b+c, \quad 10=10$

MULTIPLICATION
Property of equality

If the same number is multiplied by both sides of an equation, the two sides remain equal.

If $a=b$, then $a c=b c$.

Example
Solve $\frac{x}{5}=10$
$5 \cdot \frac{x}{5}=5 \cdot 10$
$x=50$
Check
$\frac{x}{5}=10$
$\frac{50}{5}=10$
$10=10$

DIVISION
Property of equality

If the same number is
divided by both sides of an
equation, the two sides
remain equal.
If $a=b$, then $\frac{a}{c}=\frac{b}{c}$
Check
$5 x=10$
$5(2)=10$
$10=10$

## Examples

1. $-3+x=6$
2. $5 x=25$
3. $x+4=11$
4. $\frac{2}{3} x=-6$
5. $\frac{x}{2}=-7$
