

Using Graphing Styles in the Y= Menu MathPrint View

Objectives:

- List ways to clarify similar or confusing graphs
- Change the graphing color and/or style
- Use any of the eight graphing styles in the Y= menu

List ways to clarify similar or confusing graphs

When there are several equations in the Y= menu, but the graphs are similar or confusing, some ways to help identify which graph goes with which equation are:

- Notice the different colors automatically assigned to each graph, or change the color.
- Use a different graphing style for each graph using symbols to the left of the function in the Y= menu.

These first two methods are explained here.

- Turn off some graphs by un-selecting the = next to that function in the Y= menu.
- Change MODE to SEQUENTIAL. The GC will graph y_1 , then y_2 , and so on, in order.

Change the graphing color and/or style

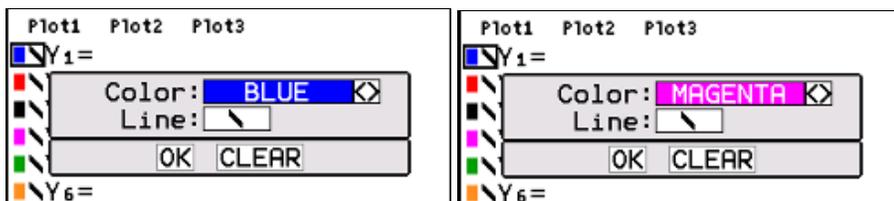
In the Y= menu, notice the diagonal bar to the left of the equal sign. This is the “bold” graphing style.

KEY POINT: If you move left of y_1 , and press enter, you will enter a menu to change the color and/or style.

Press  or  to move through a menu, and  to select and move down.

To change the color, press  or  to move through the list of colors, which is:

- | | | | |
|------------|-----------|-----------------|-----------------|
| 1) Blue | 5) Green | 9) Light Blue | 13) Medium Gray |
| 2) Red | 6) Orange | 10) Yellow | 14) Gray |
| 3) Black | 7) Brown | 11) White (!?!) | 15) Dark Gray |
| 4) Magenta | 8) Navy | 12) Light Gray | 16) Blue again |



Press ENTER to select a color and move to the graphing style menu.

To change the style, press  or  to move through the list of styles, which is:

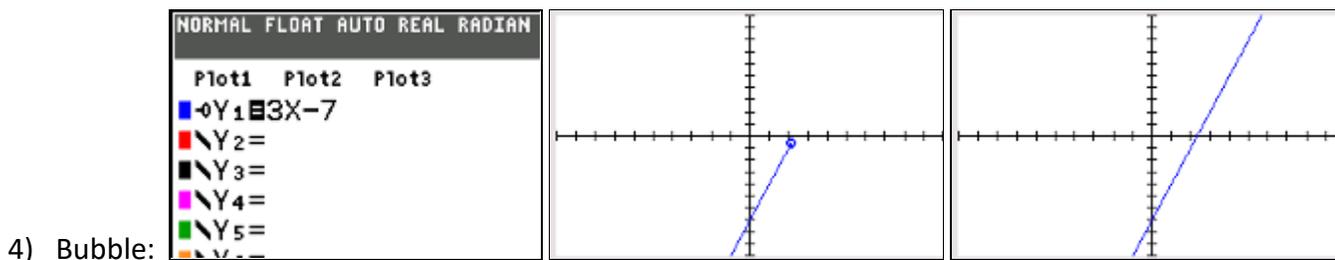
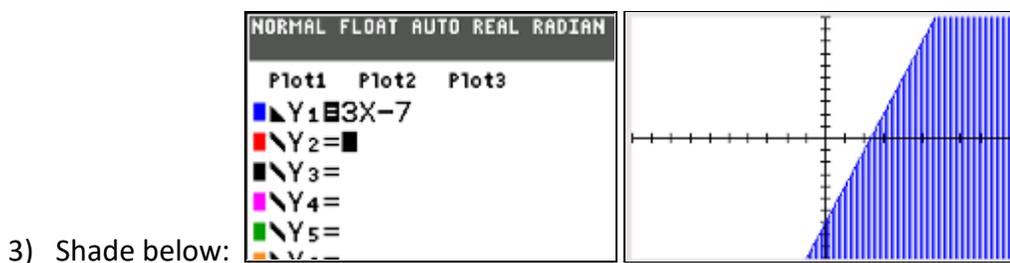
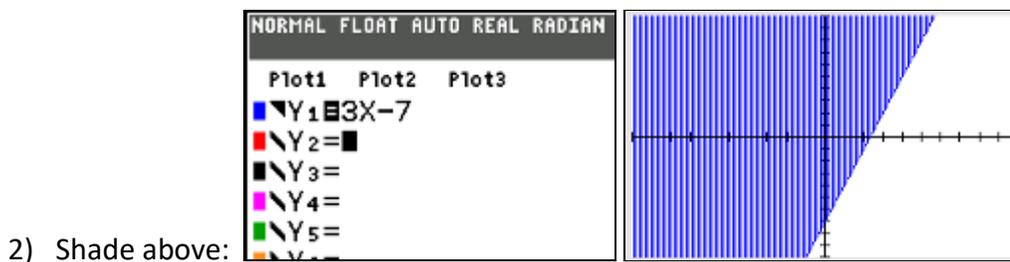
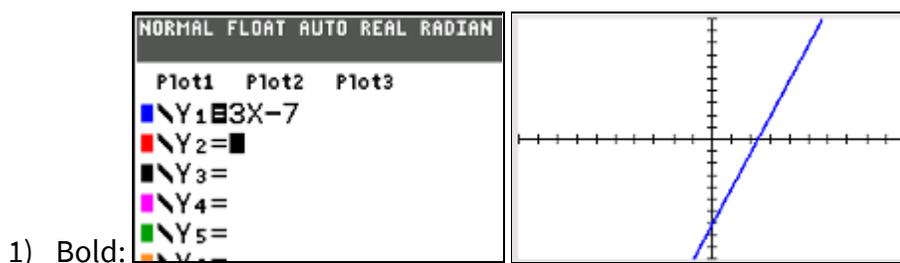
- 1) Bold – makes a thick graph: 
- 2) Shade above – use for inequalities where $y >$ or $y \geq$: 
- 3) Shade below – use for inequalities where $y <$ or $y \leq$: 

- 4) Bubble – to watch a particular graph appear on the screen: $\boxed{\text{0Y}_1=}$
- 5) Invisible bubble – to compare a graph to other graphs, without graphing it: $\boxed{\text{0Y}_1=}$
- 6) Bold Dotted – makes the graph dotted: $\boxed{\text{\.Y}_1=}$
- 7) Thin Dotted – makes the graph finely dotted: $\boxed{\text{\.Y}_1=}$
- 8) Plain – $\boxed{\text{\Y}_1=}$
- 9) Back to Bold again

Press ENTER to select a style and move to the OK position. Press ENTER again to complete selection.

Use any of the eight graphing styles in the Y= menu

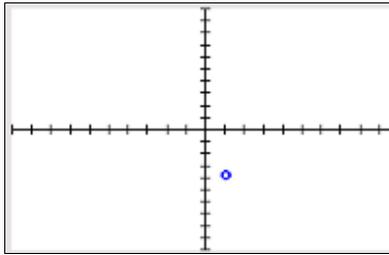
Example 1: Graph $y_1 = 3x - 7$ in a standard window using each style.



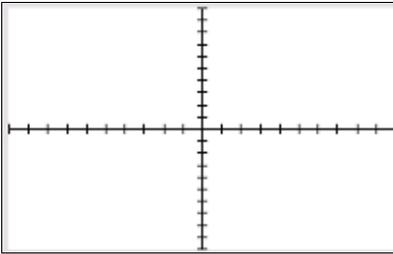
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NORMAL FLOAT AUTO REAL RADIAN
Plot1 Plot2 Plot3
0Y1=3X-7
Y2=
Y3=
Y4=
Y5=

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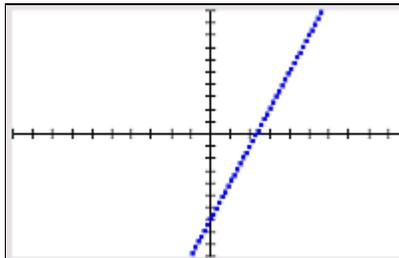
5) Invisible bubble:



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NORMAL FLOAT AUTO REAL RADIAN
Plot1 Plot2 Plot3
Y1=3X-7
Y2=
Y3=
Y4=
Y5=

```

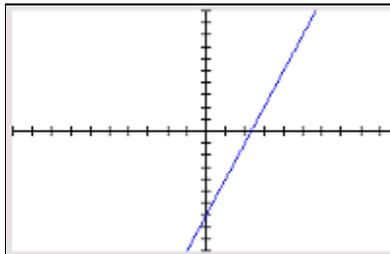


6) Dotted:

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NORMAL FLOAT AUTO REAL RADIAN
Plot1 Plot2 Plot3
Y1=3X-7
Y2=
Y3=
Y4=
Y5=

```



7) Plain: