Graphing on the TI Calculator

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Setup

graph 1

graph2

Setup

From your Homescreen go into the "$y =$" menu.

$\Diamond$ **F1**

F1   9: Format
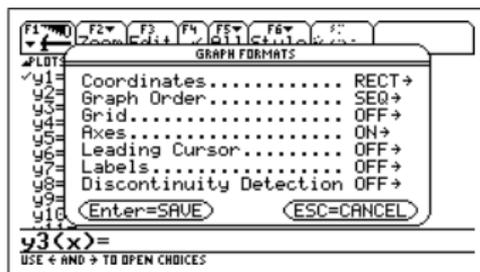
Graphing

Let's graph,

$$y = \frac{3}{8}x - 1$$

From the Homescreen go into "$y =$" screen.

$\boxed{\diamond}$ $\boxed{\textbf{F1}}$

Type in **y1 = (3/8)*x–1**
Press $\boxed{\textbf{ENTER}}$

Graph cont.

Notice the $\checkmark$ mark.

$\boxed{\textbf{F2}}$ $\boxed{\textbf{6}}$

$\boxed{\textbf{F3}}$ Trace

Graph cont.

Go to window menu

$\Diamond$ **F2**

To graph press $\Diamond$ **F3**

Graph Second

Add the new graph, $y = -\frac{1}{8} x^2 + 5$

On calculator, **y2 = (-1/8) * x^2 + 5**

Use Zoomstd.

$\boxed{\text{F2}}$ $\boxed{6}$ 6: ZoomStd

Intersection

Find the Intersections between the graphs.

In Math menu, $\boxed{\text{F5}}$ $\boxed{5}$ 5: Intersection

Intersection cont.

1$^{\text{st}}$ Curve,   **ENTER**

2$^{\text{nd}}$ Curve,   **ENTER**

Lower?   Left   **ENTER**

Upper?   Right   **ENTER**

Zeros

Find the *x*-intercepts: called zeros.

Press, $\boxed{\text{F5}}$ $\boxed{2}$

| Lower? | Left | $\boxed{\textbf{ENTER}}$ |
| Upper? | Right | $\boxed{\textbf{ENTER}}$ |

The *y*-value should be close to zero.