

Graphing a derivative of a function on a TI 83/84

Enter the function in Y1

```
Plot1 Plot2 Plot3
\Y1 X^3/2-3
\Y2 =
\Y3 =
\Y4 =
\Y5 =
\Y6 =
\Y7 =
```

Scroll down to Y2
Press MATH 8

```
NUM CPX PRB
3↑3
4:∫(
5:∫(
6:fMin(
7:fMax(
8:nDeriv(
9:fnInt(
```

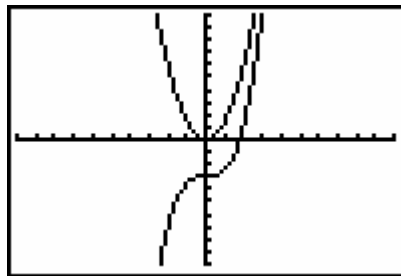
The Press Enter

```
Plot1 Plot2 Plot3
\Y1 X^3/2-3
\Y2 nDeriv(
\Y3 =
\Y4 =
\Y5 =
\Y6 =
\Y7 =
```

Now either type in the function, or
type in Y1, **followed by** x,x)

```
Plot1 Plot2 Plot3
\Y1 X^3/2-3
\Y2 nDeriv(Y1,X,
X)
\Y3 =
\Y4 =
\Y5 =
\Y6 =
```

Graph



Thought: Why is the derivative a parabola?