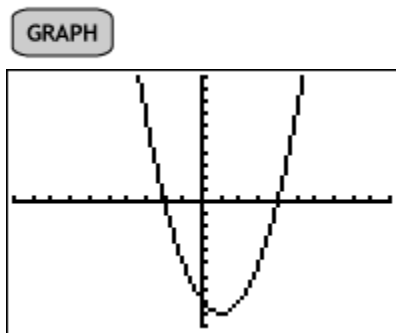
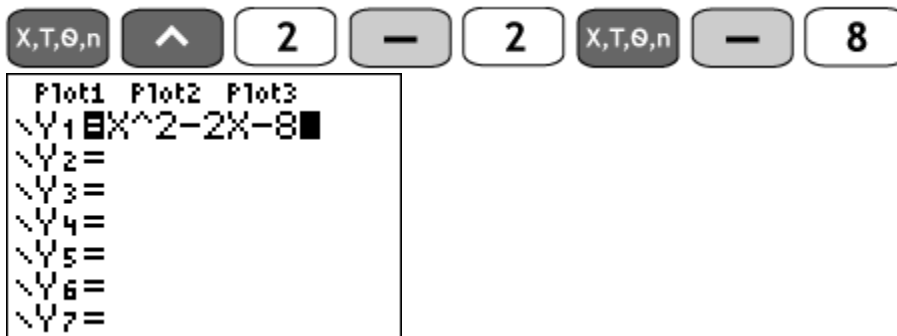
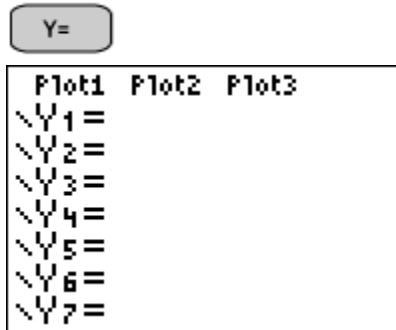


Graphing a Parabola

$$y = x^2 - 2x - 8$$

Enter Equation:



Change Window View:

WINDOW

WINDOW
Xmin=-10
Xmax=10
Xscl=1
Ymin=-10
Ymax=10
Yscl=1
Xres=1

$$y = x^2 - 2x - 8$$

Find Ordered Pairs (Table):

2nd GRAPH

X	Y1
-3	7
-2	0
-1	-5
0	-8
1	-9
2	-8
3	-5

X = -3

- (-3, 7)
- (-2, 0)
- (-1, -5)
- (0, -8)
- (1, -9)
- (2, -8)
- (3, -5)

To change the table, use:



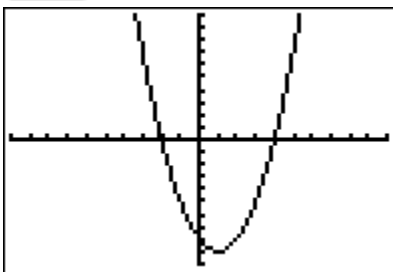
Change Table Setting (TBLST)

2nd WINDOW

```
TABLE SETUP
TblStart= 5
ΔTbl=1
Indent:  AUTO Ask
Depend:  AUTO Ask
```

x-intercepts:

GRAPH



2nd TRACE

```
CALCULATE
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
```

↓ ENTER

```
CALCULATE
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
```

ENTER

```
Y1=X^2-2X-8
Left Bound?
X=0
Y=-8
```

ENTER

```
Y1=X^2-2X-8
Right Bound?
X=-2.765957
Y=5.1824355
```

ENTER

```
Y1=X^2-2X-8
Guess?
X=-1.489362
Y=-2.803078
```

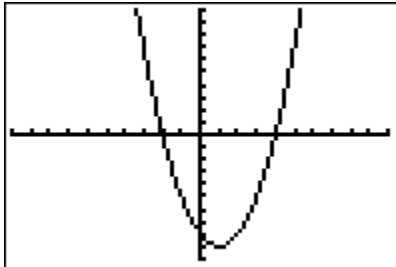
```
Zero
X=-2
Y=0
```

x-intercept: (-2, 0)

$$y = x^2 - 2x - 8$$

y-intercept:

GRAPH



2nd

TRACE

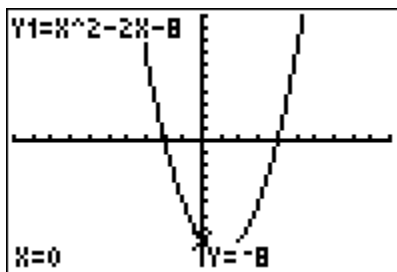
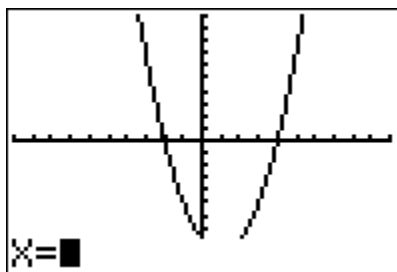
ENTER

```

CALC
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
    
```

0

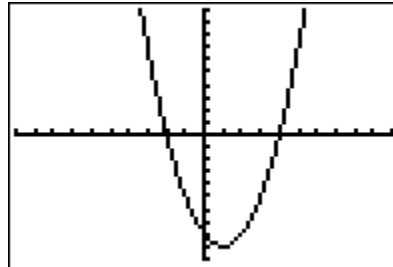
ENTER



y-intercept: (0, -8)

vertex:

GRAPH



2nd

TRACE

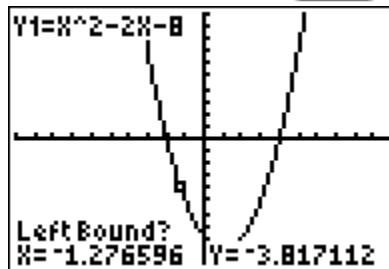


ENTER

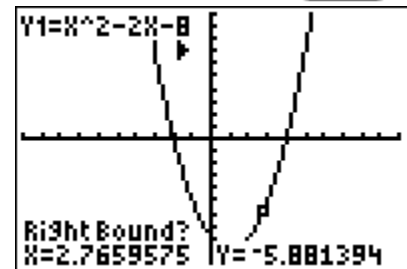
```

CALC
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
    
```

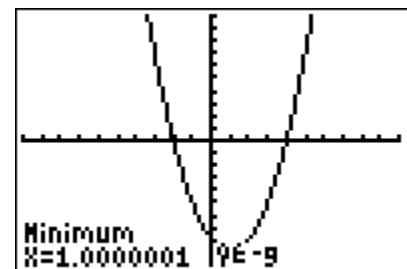
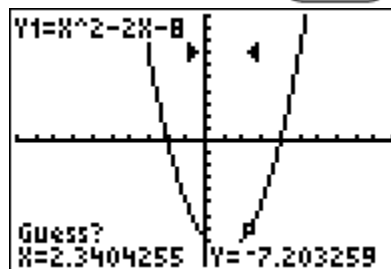
ENTER



ENTER



ENTER



vertex: (1, -9)