Activity 1 - Find the Intersection of Two Graphed Functions
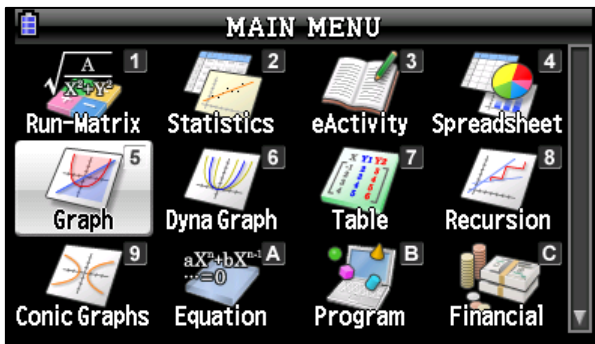## $Y1 = 3x^2 – 2x – 4$
$Y2 = -3x + 1$
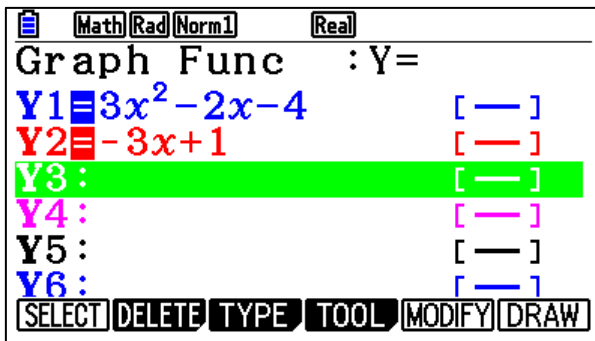## Domain: [-10, 10] and Range: [-10, 10]

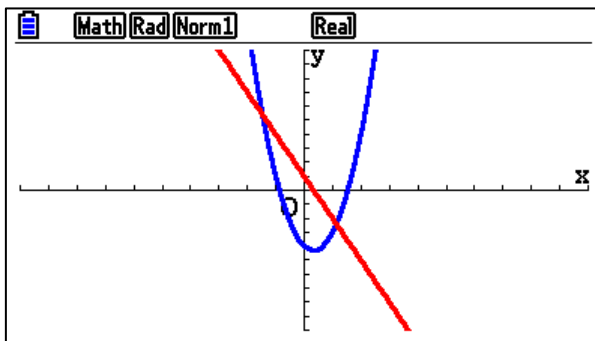| CASIO (PRIZM)	TEXAS INSTRUMENTS (84 PLUS CE)
1. From Main Menu (MENU), select **GRAPH** icon by pressing ⑤ .	1. Press the Y= button and enter the functions to be graphed.

2. Enter functions to be graphed. Press EXE to store each function.	2. Press graph to view the graph of the functions.

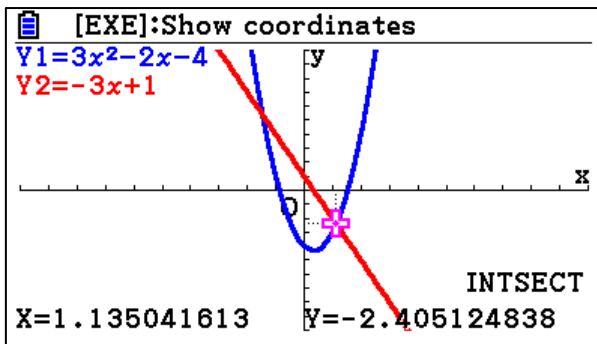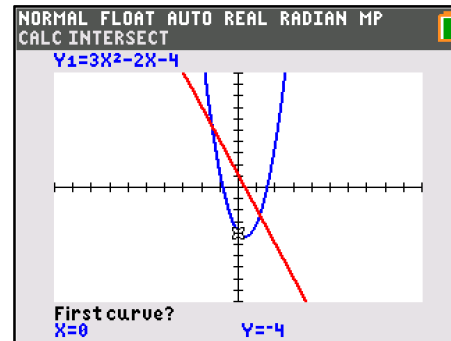|	
3. Press F6 (DRAW) to view the graph of the functions.	3. Press 2nd trace (calc).

CASIO.

4. Press [F5] (G-Solv) [F5] (INTSECT) to find the intersection of the functions. The left-most intersection is displayed first.
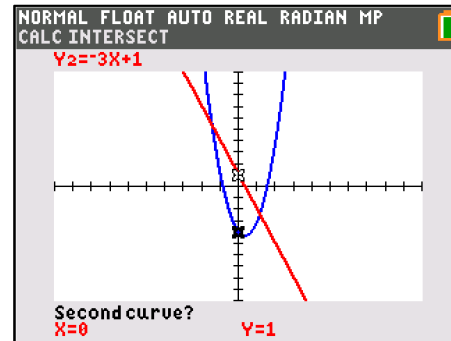

5. Press ▶ to go to next intersection. Use **ARROW KEYS** to toggle between all intersection points.

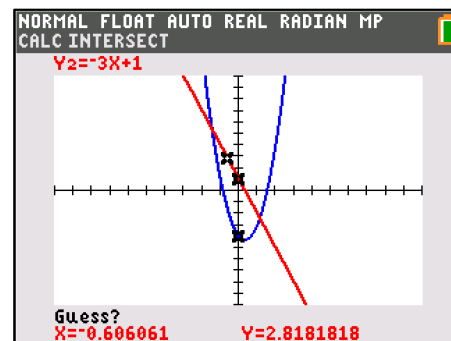

4. Press [5] (intersect) or arrow down to **5** and press [ENTER].

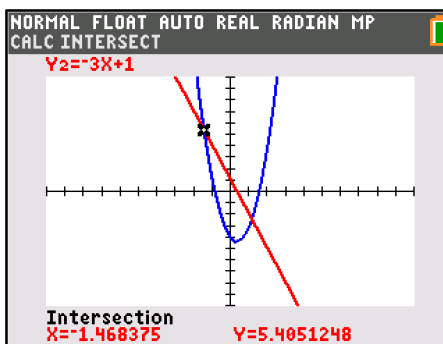

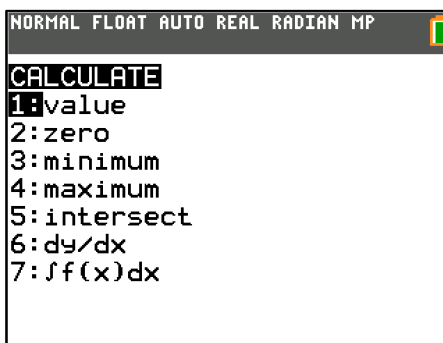5. Choose the first function (highlighted on the screen) by pressing [ENTER].

6. Choose the second function (highlighted on screen) by pressing [ENTER].

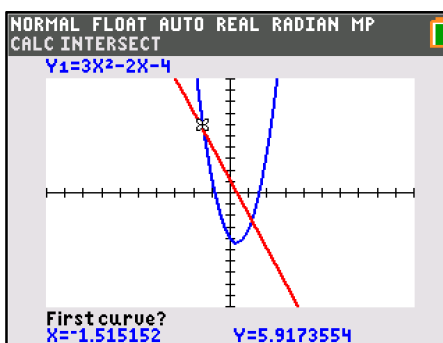7. Use the arrow keys (◄►) to move the curosr toward the desired intersection to make a **GUESS** and press ENTER. The intersection will display.
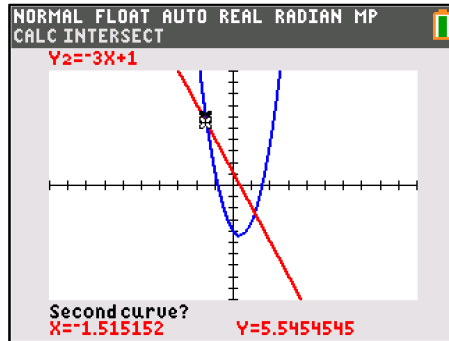

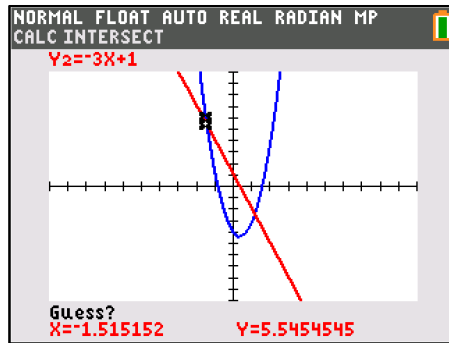8. To find the next intersection point, repeat Steps 3 – 7. Press 2nd trace (calc).
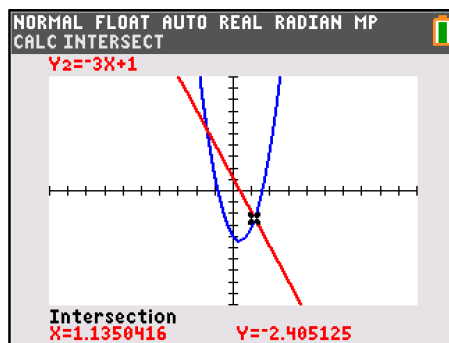

9. Press 5 (intersect).

10. Choose the first function by pressing enter.

NORMAL FLOAT AUTO REAL RADIAN MP
CALC INTERSECT
Y2=-3X+1

Second curve?
X=-1.515152   Y=5.5454545

11. Choose the second function by pressing enter.

NORMAL FLOAT AUTO REAL RADIAN MP
CALC INTERSECT
Y2=-3X+1

Guess?
X=-1.515152   Y=5.5454545

12. Use the arrow keys (◄►) to move the cursor to the next desired intersection point and press ENTER to guess.

NORMAL FLOAT AUTO REAL RADIAN MP
CALC INTERSECT
Y2=-3X+1

Intersection
X=1.1350416   Y=-2.405125

13. Repeat Steps 3 - 7 again to find more intersection points or see previous ones.