

T184 Finding Intercepts/Intersections of graphs

(Solution set for zeros using the T184)



636/584-6688

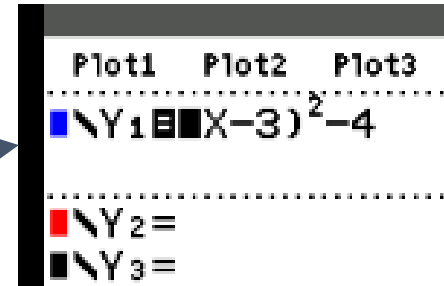
General_tutoring@eastcentral.edu

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Setup:

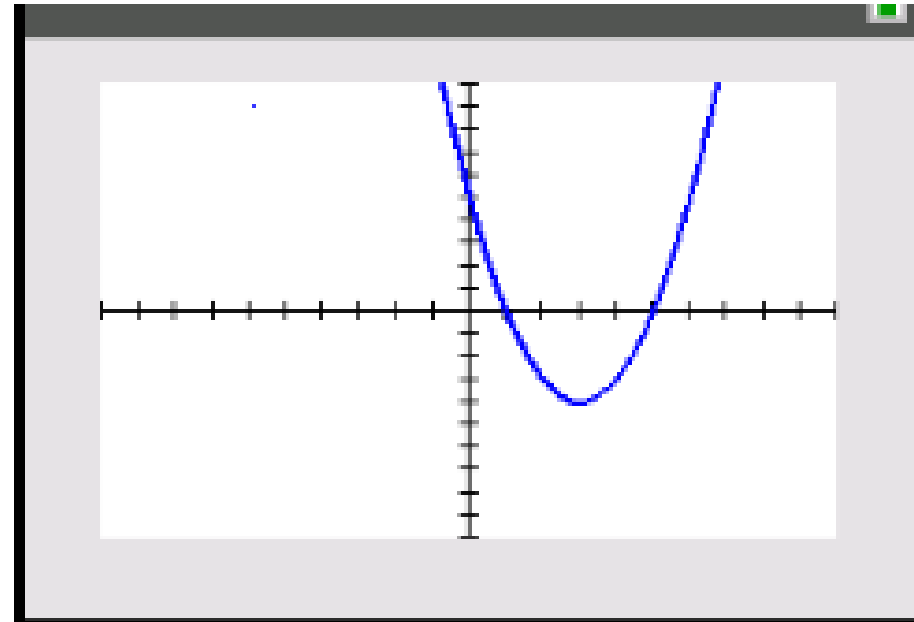
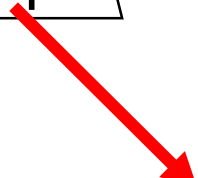
- Enter your equation in $Y=$

$Y=$



- Click on **graph** to view the graph

graph



Click to advance slide

X-intercepts

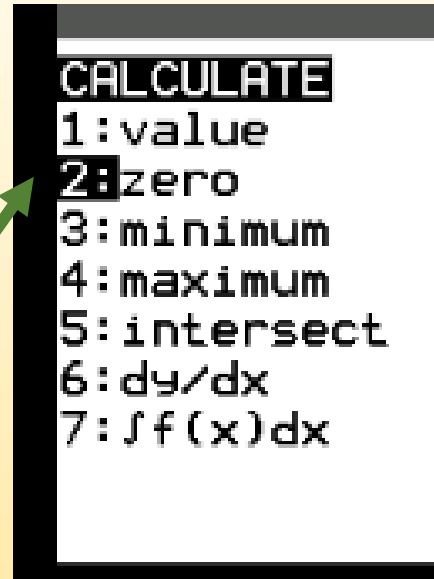
To find the x value(s), when y is zero:

1. Choose **2nd** & **trace**

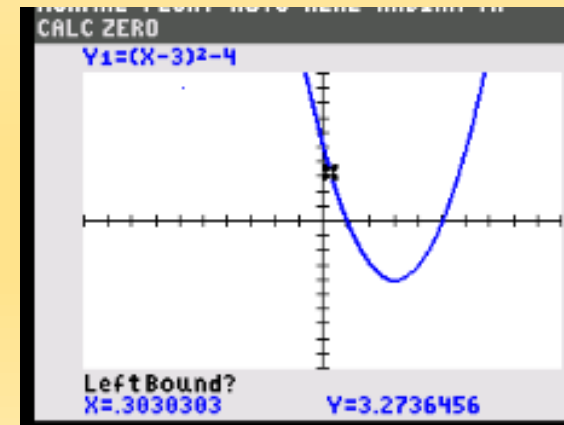


2. Arrow down to **2:zero**

& **ENTER** to view graph

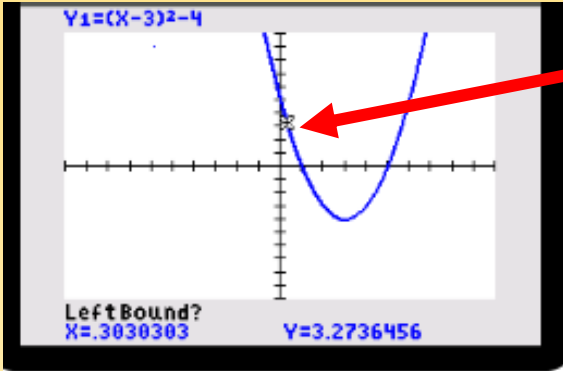


Click to advance slide



X-Intercept continued...

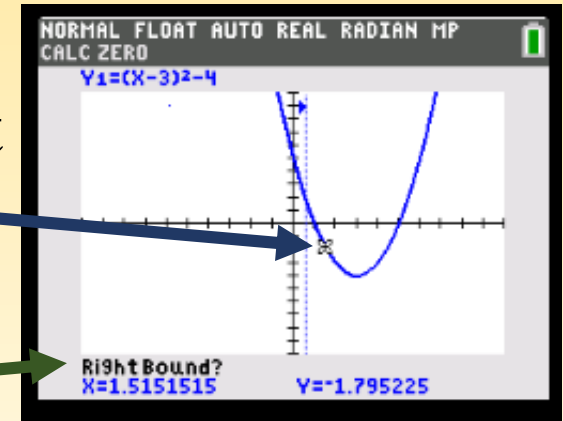
3. Arrow the *flashing cursor* to a point left of the first x-intercept



4. Click **ENTER** as a yes to 'Left Bound?'



5. Arrow the *flashing cursor* to a point right of the first x-intercept



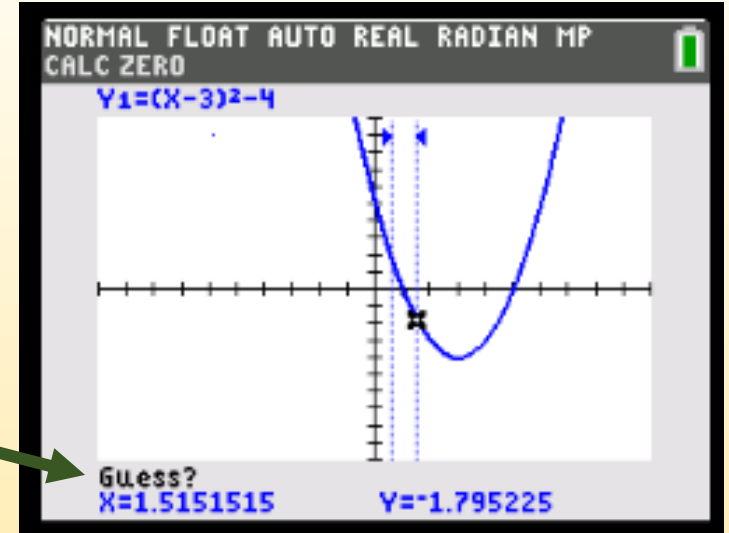
6. Click **ENTER** as a yes to the "Right Bound"

Click to advance slide



X-Intercept continued...

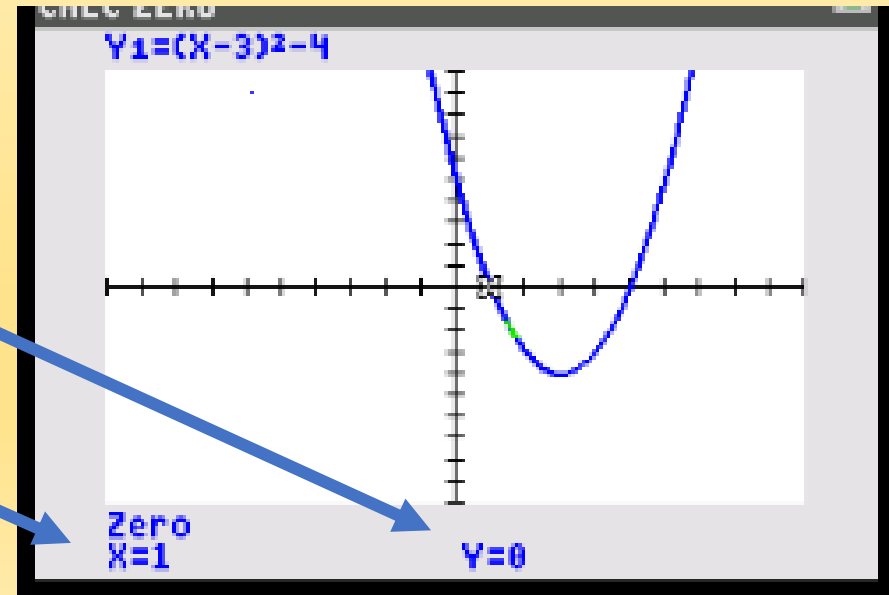
7. Click **ENTER** as a yes to the 'Guess?'



8. The answers for the coordinates, (x,0) should appear:

X=1

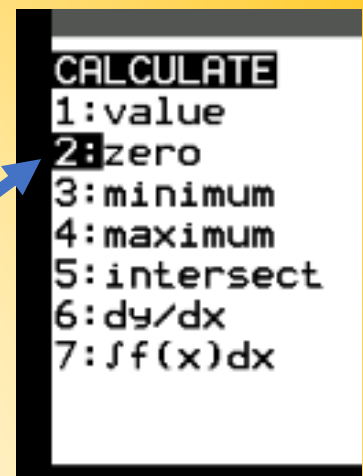
Y=0



Click to advance slide

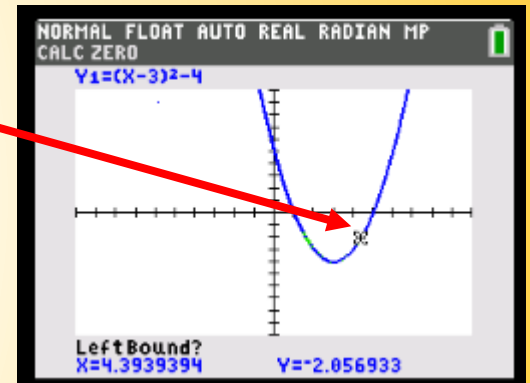
X-Intercepts continued...

To determine the right most x-intercept, choose 2nd & $\overline{\text{Trace}}$
choose 2: zero, $\overline{\text{ENTER}}$ to view graph again.



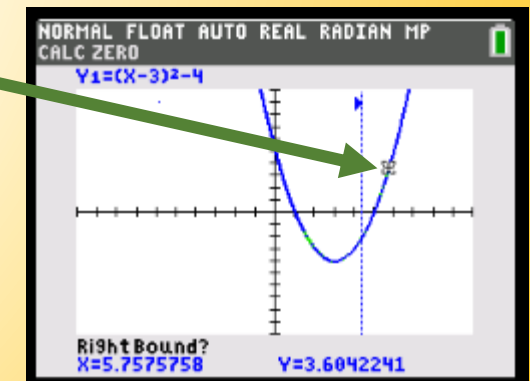
9. Arrow the *flashing cursor* to a point left of the second x-intercept.

10. Click $\overline{\text{ENTER}}$ as a yes to 'Left Bound'



11. Arrow the *flashing cursor* to a point right of the second x-intercept.

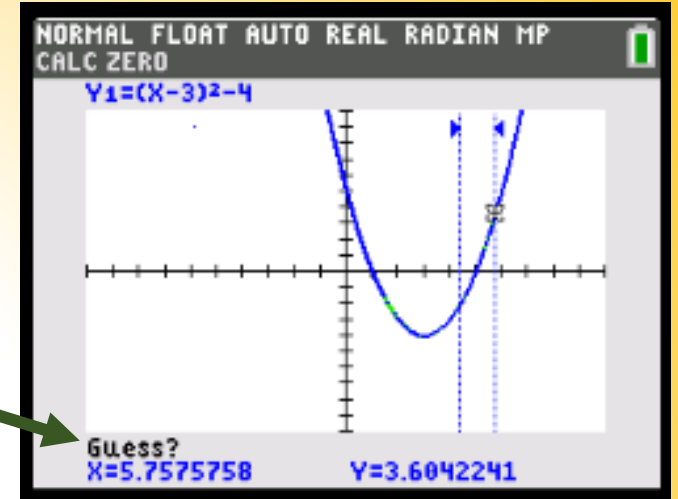
12. Click $\overline{\text{ENTER}}$ as a yes to the 'Right Bound'.



Click to advance slide

X-Intercepts continued...

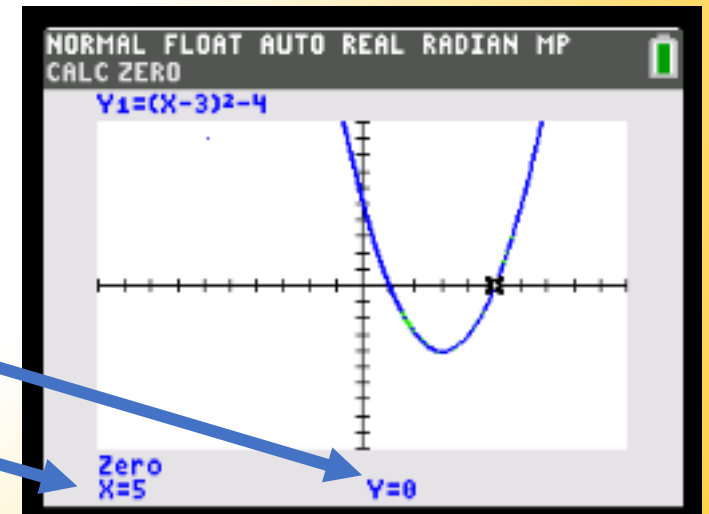
13. Click ENTER as a yes to the 'Guess'



14. The second answer for the coordinates, (x,0) should appear:

X=5

Y=0



Click to advance slide

Y-intercepts (value)

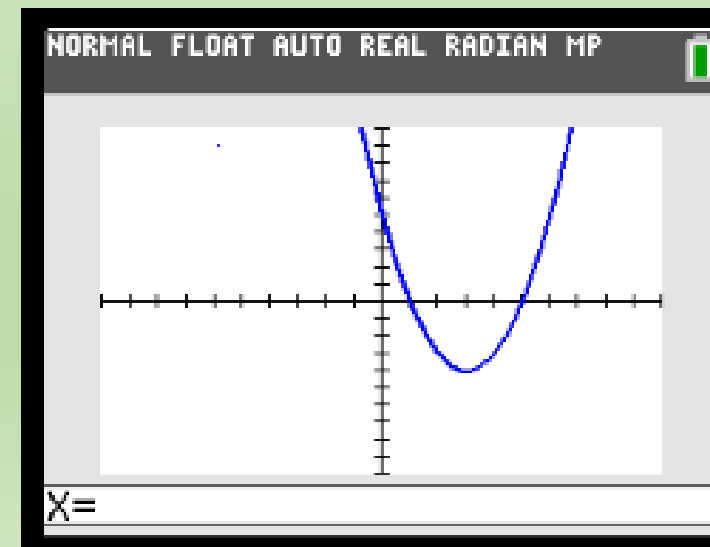
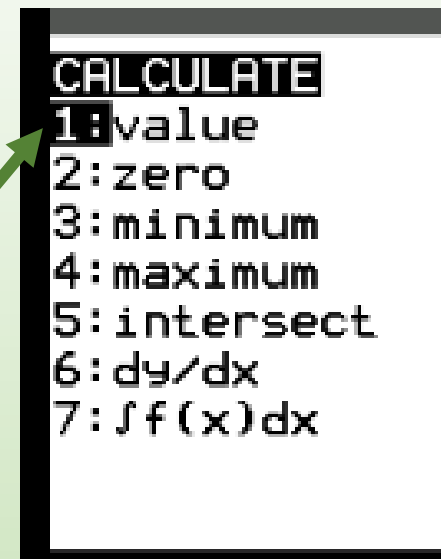
To find the y value(s), when x is zero:

1. Choose **2nd** & **CALC trace**



2. Arrow down to **1:value**

& **ENTER** to view graph

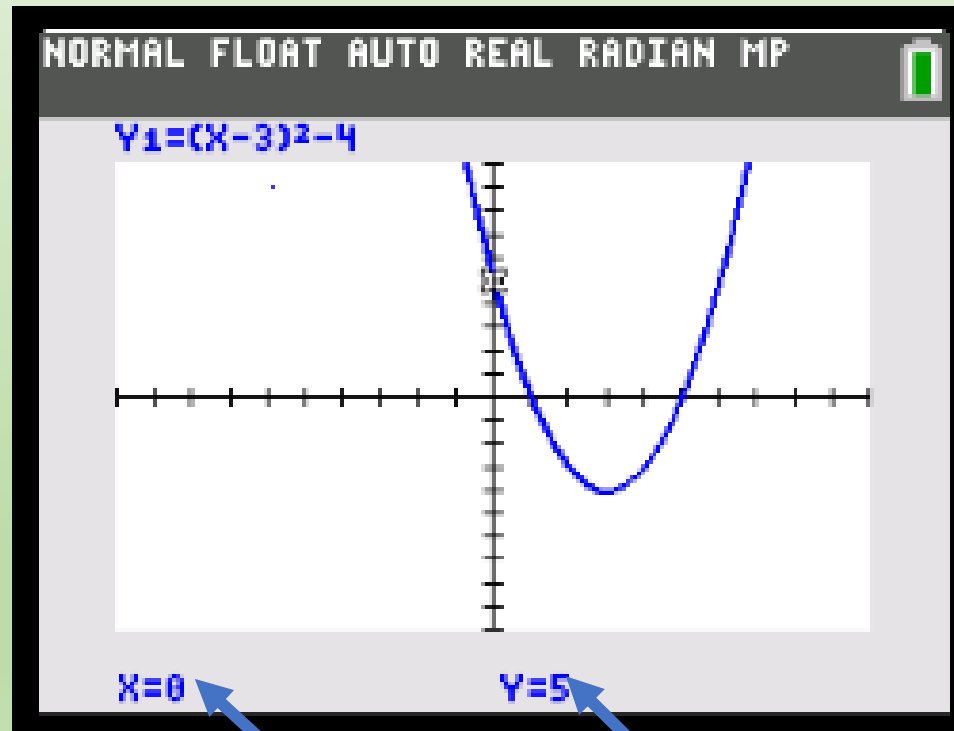
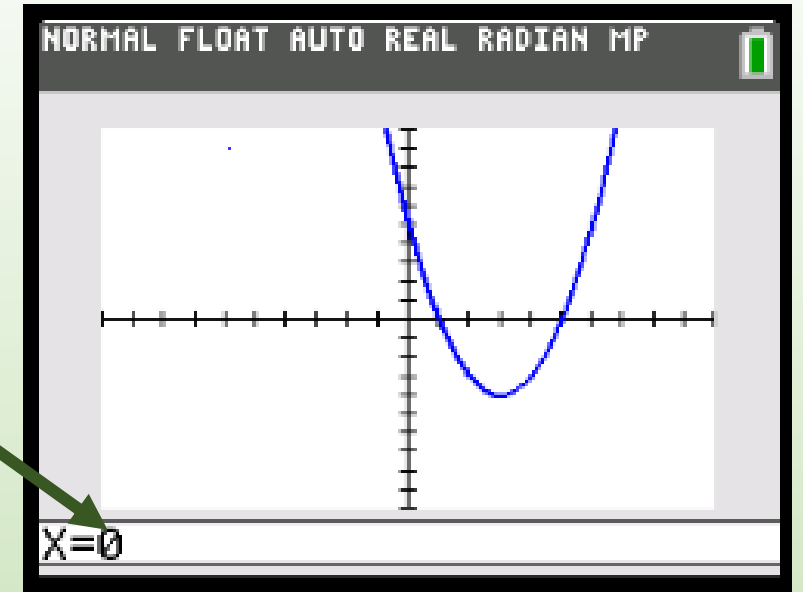


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Y-Intercept continued...

To find the y value, key zero in $X=$

The answers for the coordinates,
(0,y) should appear:



X=0

Y=5