

Name: _____

Date: _____

Calculator in hand! Use the 'TI-Nspire CX II Step-by-Step (U3-L5)' sheet from Reference & Tools. Last two are challenge problems!

1. Graph $f_1(x) = 2x + 1$. Use ctrl+T to show the table. What is y when $x = 4$?

show your work

2. Graph $f_1(x) = x^2 - 5$. From the table, what is y when $x = 3$?

show your work

3. Graph $f_1(x) = x + 2$ and $f_2(x) = 2x - 1$. Find the intersection.

show your work

4. Graph $f_1(x) = x^2 - 4$. Find both zeros.

show your work

5. Graph $f_1(x) = -x^2 + 6x$. Find the maximum.

show your work

6. Graph $f_1(x) = 3x - 7$. From the table: what x gives $y = 8$?

show your work

7. Graph $f_1(x) = x^2 + 2x - 8$. Find the minimum.

show your work

8. Graph $f_1(x) = 0.5x + 3$ and $f_2(x) = -x + 6$. Intersection?

show your work

9. Graph $f_1(x) = x^2 - 2x - 3$ and $f_2(x) = x + 1$. Find BOTH intersections. ★ CHALLENGE

show your work

10. $f_1(x) = x^2 - 6x + 5$. Find the zeros AND the minimum, then explain how they relate. ★ CHALLENGE

show your work