Name Key
Mrs. Roumbos

Date_____
8A Period_____

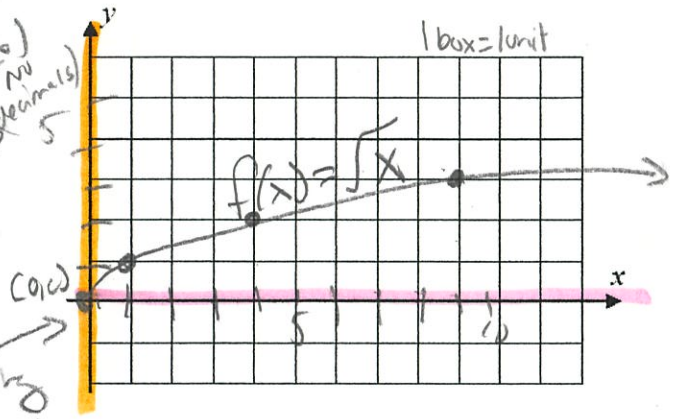
Do Now

Exercise #1: Consider $f(x)=\sqrt{x}$.

(a) Create a table of values for input values of x for which you can find rational square roots.

x	0	1	4	9
$f(x)=\sqrt{x}$	0	1	2	3

(b) Graph the function on the grid provided.



(c) What is the domain of this function?

$[0,\infty)$ or $x \geq 0$

(d) What is the range of this function?

$[0,\infty)$ or $y \geq 0$

(e) Circle the correct choice below that characterizes $f(x)=\sqrt{x}$.

$f(x)$ is always decreasing

$f(x)$ is always increasing

(f) What shape does the square root graph appear to be "half" of? **This is not a coincidence.**

Half of a parabola that is on it's side B/C x^2 & $\sqrt{x}$ are inverses of each other, so the graphs are related