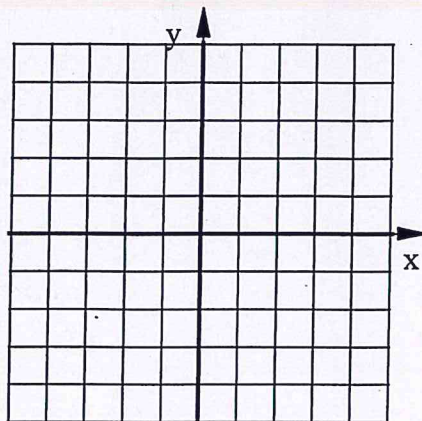
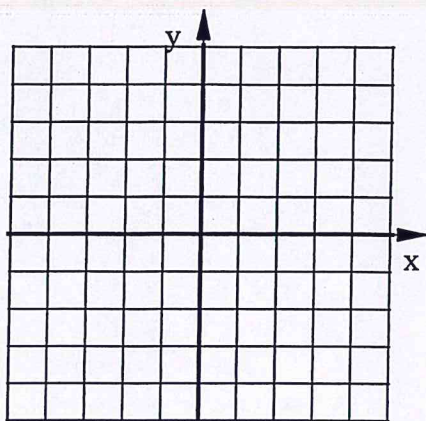


Bellwork Alg 2 Wednesday, February 5, 2020

1. Graph each Square Root Function using at least 3 points.

a. $y = 4\sqrt{-(x-3)} - 5$

b. $y = -3\sqrt{x+2} + 4$



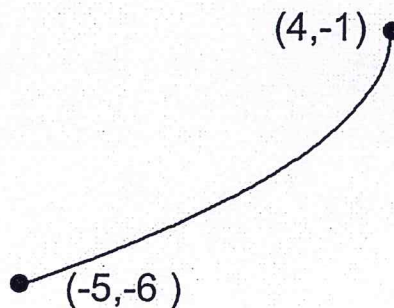
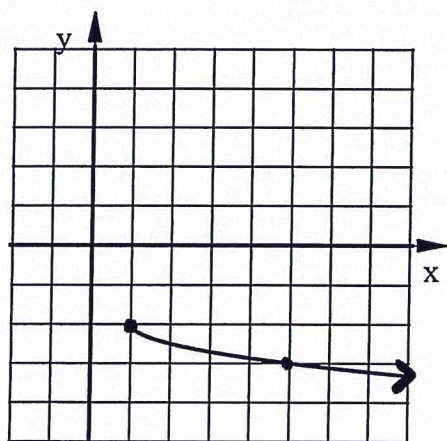
2. Write the equation of each Square Root Function.

a.

b.

$y =$

$y =$



3. State the Domain and Range of each Square Root Function.

a) $y = -8\sqrt{x+11} - 4$

b) $y = 3\sqrt{-(x+9)} + 13$

Domain:

Domain:

Range:

Range:

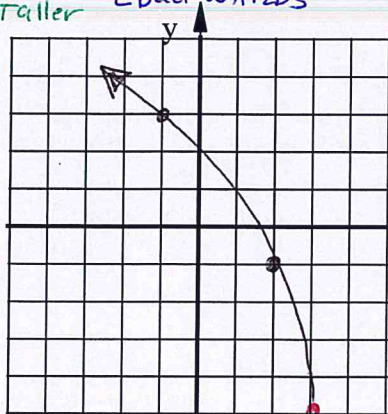
1. Graph each Square Root Function using at least 3 points.

a. $y = 4\sqrt{-(x-3)} - 5$

START AT $(3, -5)$

4x taller

BACKWARDS



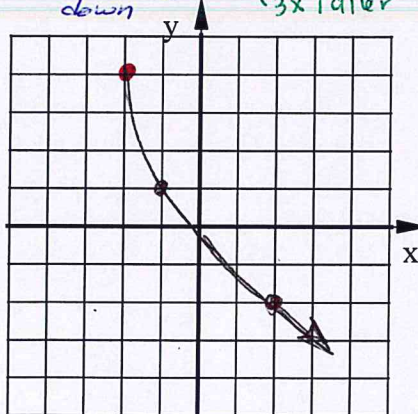
1st Good PT
Becomes
4
2nd good pt
Becomes
8

b. $y = -3\sqrt{x+2} + 4$

START AT $(-2, 4)$

upside down

3x taller

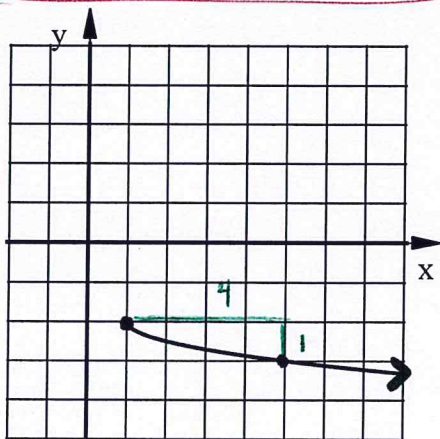


1st Good PT
Becomes
3
2nd Good PT
Becomes
6

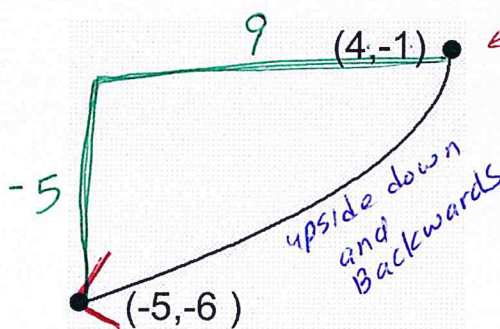
2. Write the equation of each Square Root Function.

a. $y = -\frac{1}{2}\sqrt{x-1} - 2$

b. $y = -\frac{5}{3}\sqrt{-(x-4)} - 1$



STARTS AT $(1, -2)$
 (h, k)



STARTS AT
 $(4, -1)$
 (h, k)

THIS FUNCTION:
4
1
Parent
4
2
1/2 as tall
and
upside down

THIS GRAPH:
9
-5
parent:
9
3
 $a = -5/3$

3. State the Domain and Range of each Square Root Function.

a) $y = -8\sqrt{x+11} - 4$

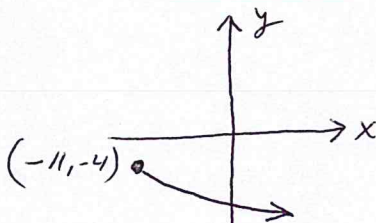
Domain: $[-11, \infty)$

Range: $[-\infty, -4)$

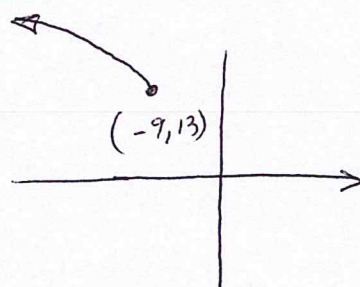
b) $y = 3\sqrt{-(x+9)} + 13$

Domain: $[-\infty, -9]$

Range: $[13, \infty)$



STARTS AT $(-11, -4)$
upside down



STARTS AT $(-9, 13)$
Backwards