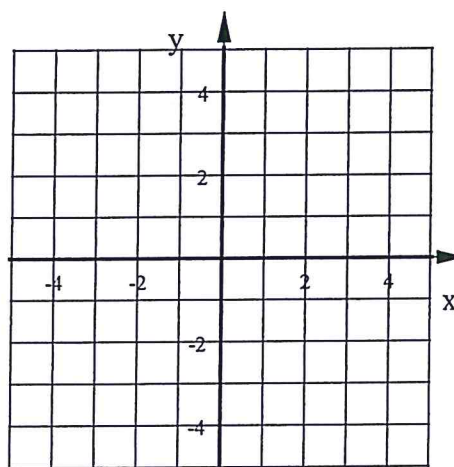
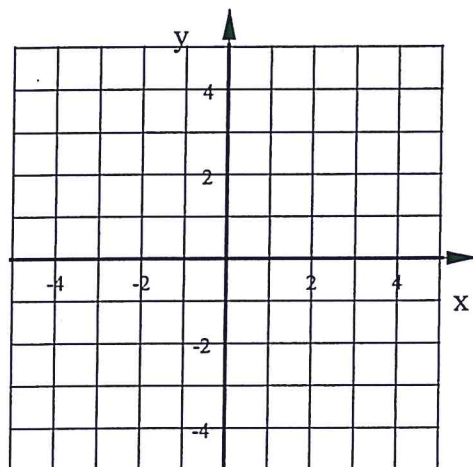


# Algebra 2 Bellwork Friday, May 8, 2015

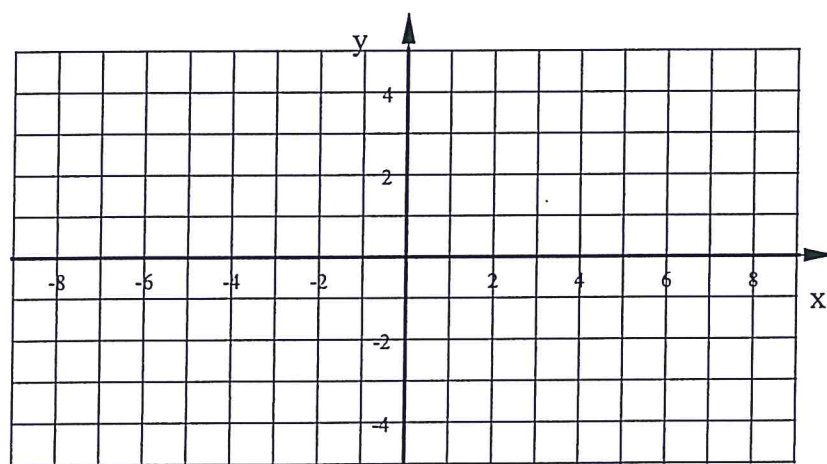
For 1 to 3, graph each Square Root function using three points.

1.  $y = -3\sqrt{x+1} + 4$

2.  $y = -2\sqrt{-(x-4)} + 1$



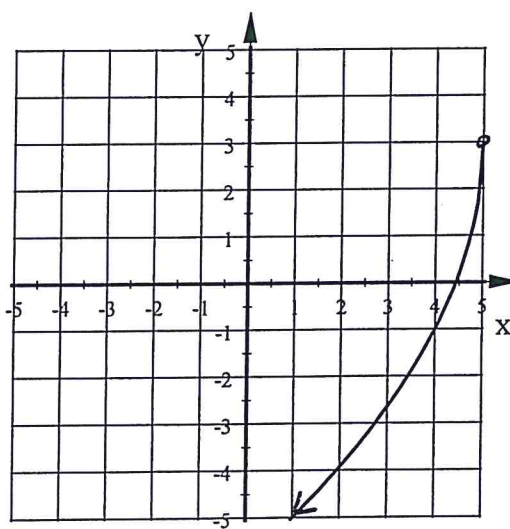
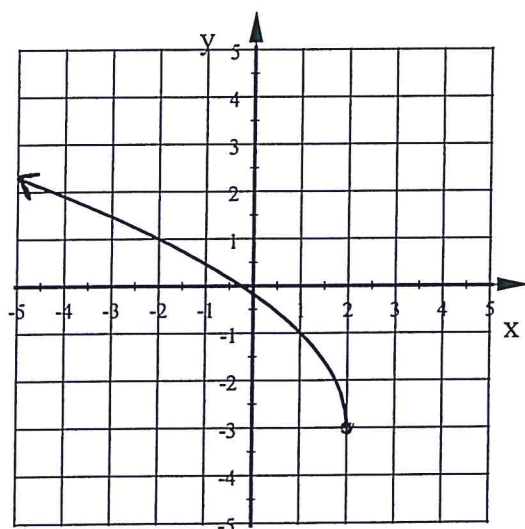
3.  $y = \frac{1}{2}\sqrt{x+7} - 5$



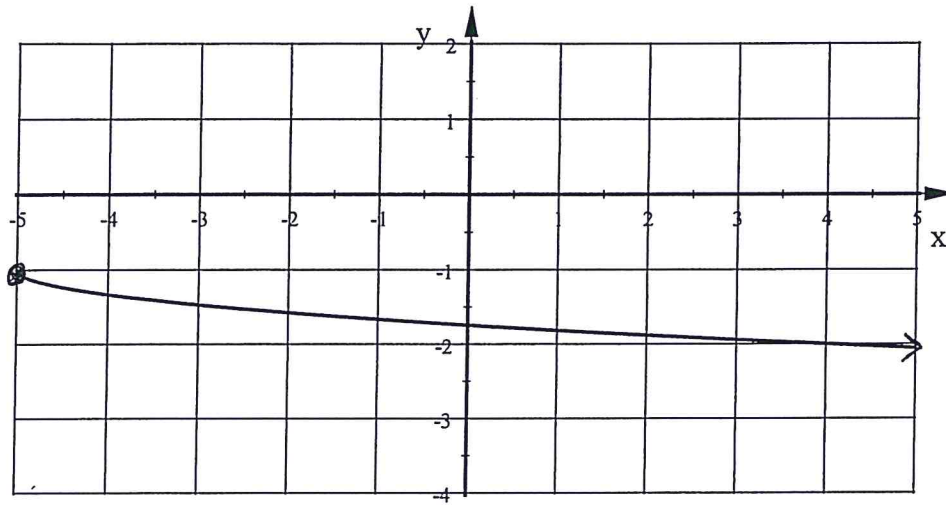
For 4 to 6, write the equation of each Square Root function.

4.  $y =$

5.  $y =$



6.  $y =$



For 7 and 8, state the Domain and Range of each Square Root function.

7.  $y = -9\sqrt{x+8} - 16$

Domain:

Range:

8.  $y = 11\sqrt{-(x-13)} + 42$

Domain:

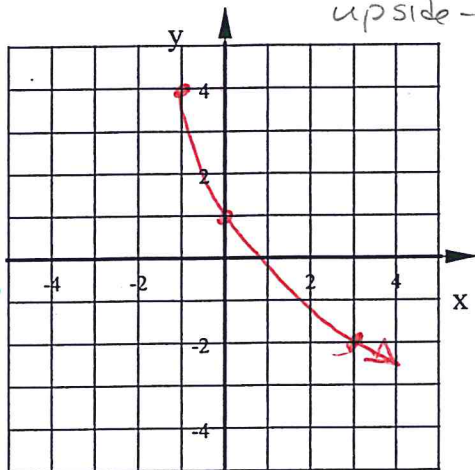
Range:

# Algebra 2 Bellwork Friday, May 8, 2015

For 1 to 3, graph each Square Root function using three points.

1.  $y = -3\sqrt{x+1} + 4$

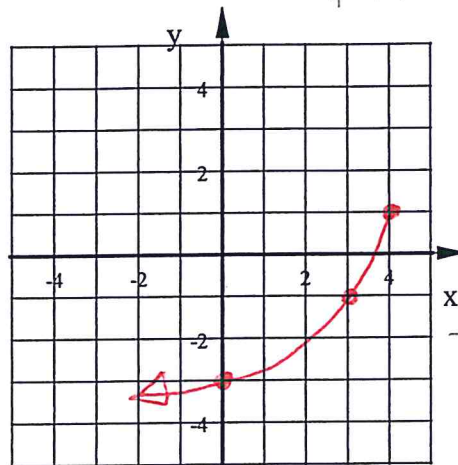
1 left 4 up  
3 x Taller  
upside-down



2.  $y = -2\sqrt{-(x-4)} + 1$

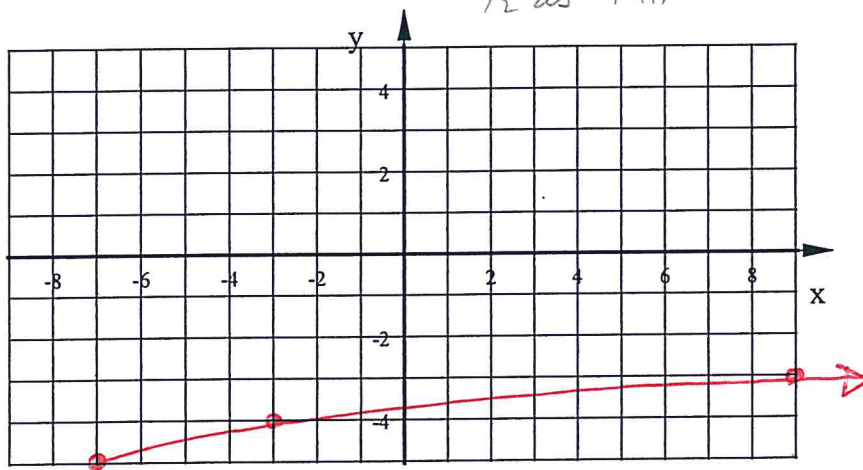
ANSWERS

4 RIGHT 1 up  
2 x taller  
upside down & backwa



3.  $y = \frac{1}{2}\sqrt{x+7} - 5$

7 left 5 down  
 $\frac{1}{2}$  as Tall



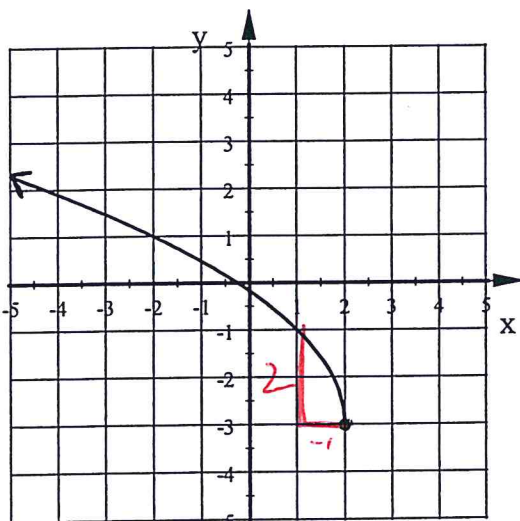
$$\frac{1}{4} \sqrt{2x-2} = \frac{1}{4} \sqrt{2(x-1)} = \frac{1}{4} \sqrt{2} \sqrt{x-1} = \frac{\sqrt{2}}{4} \sqrt{x-1}$$

$$\frac{1}{16} \sqrt{4x-1} = \frac{1}{16} \sqrt{4(x-\frac{1}{4})} = \frac{1}{16} \cdot 2 \sqrt{x-\frac{1}{4}} = \frac{1}{8} \sqrt{x-\frac{1}{4}}$$

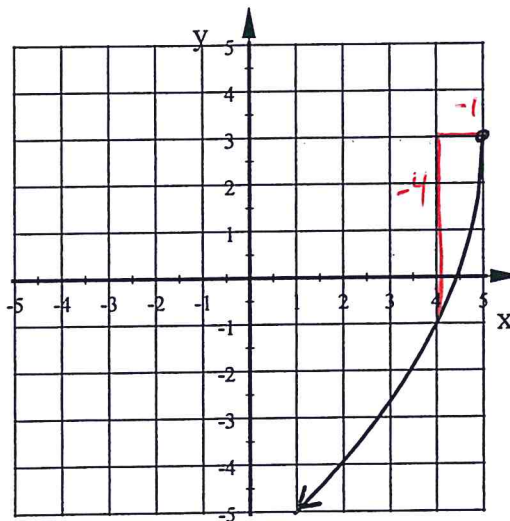
For 4 to 6, write the equation of each Square Root function.

4.  $y = 2\sqrt{-(x-2)} - 3$

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

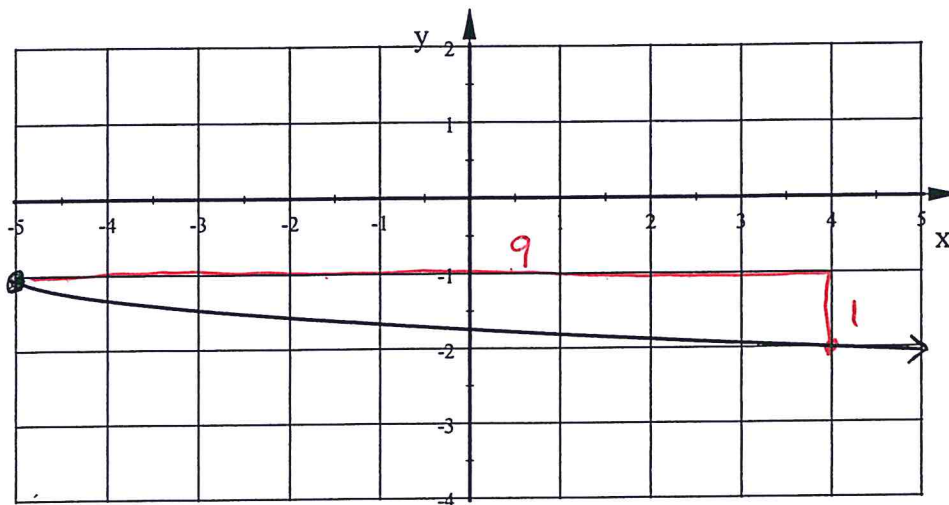


- 2 RIGHT 3 Down
- Backwards
- 2 x taller



- 5 RIGHT 3 up
- upside down
- backwards
- 4 x Taller

6.  $y = -\frac{1}{3}\sqrt{x+5} - 1$



- 5 left 1 down
- upside down
- $\frac{1}{3}$  as tall

For 7 and 8, state the Domain and Range of each Square Root function.

7.  $y = -9\sqrt{x+8} - 16$

Domain:  $x \geq -8$

Range:  $y \leq -16$

8 left  
16 down  
upside down

8.  $y = 11\sqrt{-(x-13)} + 42$

Domain:  $x \leq 13$

Range:  $y \geq 42$

13 RIGHT

42 up

Backwards

