

Bellwork Alg 2B Wednesday, October 11, 2017

1. Write the equation of each parent function after the given transformations.

a) Parent Function: $y = x^{\frac{5}{7}}$

Transformations: Backwards, moved 10 right, 8 down, 5 times taller.

EQ:

b) Parent Function: $y = \ln(x)$

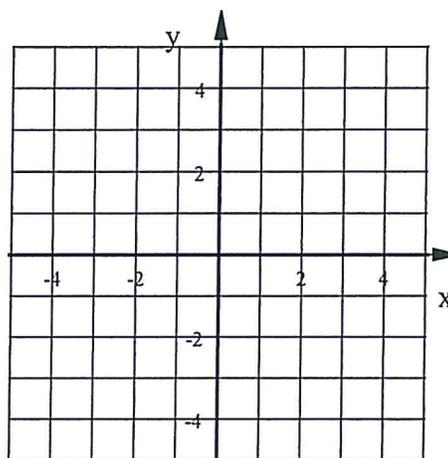
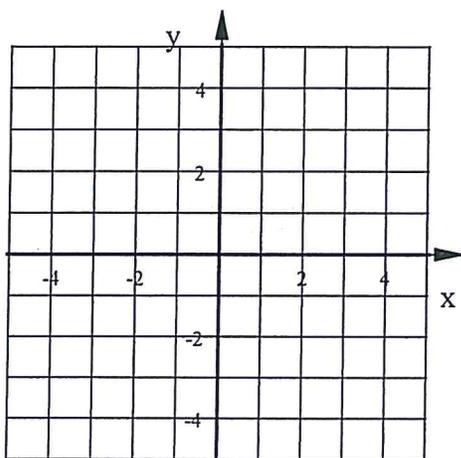
Transformations: Upside down, moved 7 left, 11 up, 1/3 as tall.

EQ:

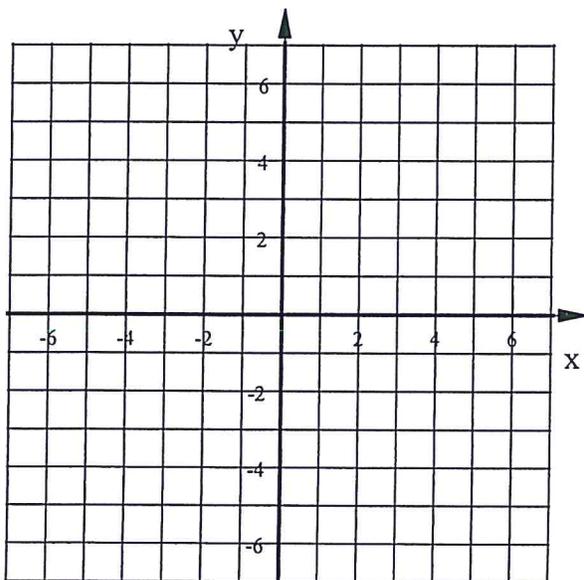
Graph each square root function using at least three points.

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

3. $y = \frac{1}{2}\sqrt{x-1} - 4$



4. $y = -4\sqrt{-(x+2)} + 6$



Bellwork Alg 2B Wednesday, October 11, 2017

1. Write the equation of each parent function after the given transformations.

a) Parent Function: $y = x^{\frac{5}{7}}$

Transformations: Backwards, moved 10 right, 8 down, 5 times taller.

EQ:
$$y = 5(-x-10)^{\frac{5}{7}} - 8$$

b) Parent Function: $y = \ln(x)$

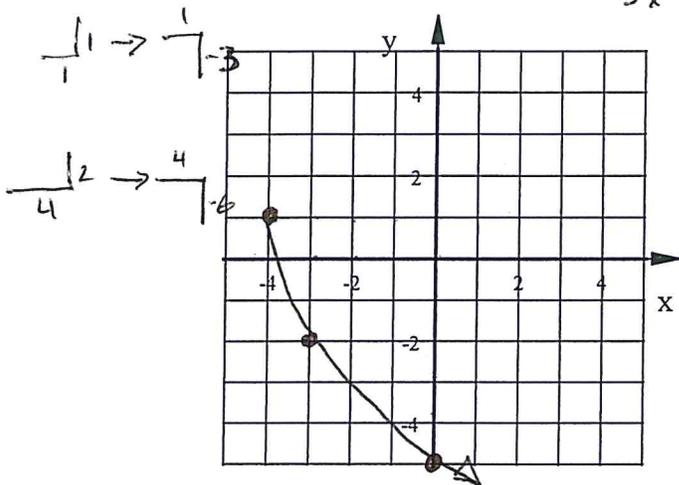
Transformations: Upside down, moved 7 left, 11 up, 1/3 as tall.

EQ:
$$y = -\frac{1}{3} \ln(x+7) + 11$$

Graph each square root function using at least three points.

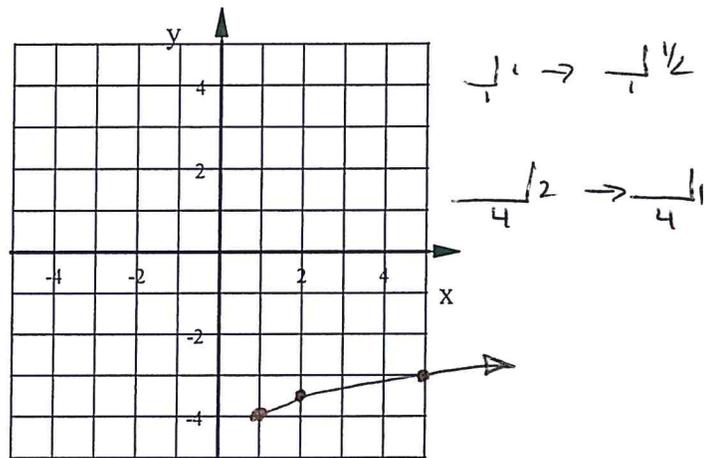
2. $y = -3\sqrt{x+4} + 1$

4 left
1 up
4 upside down
3x taller

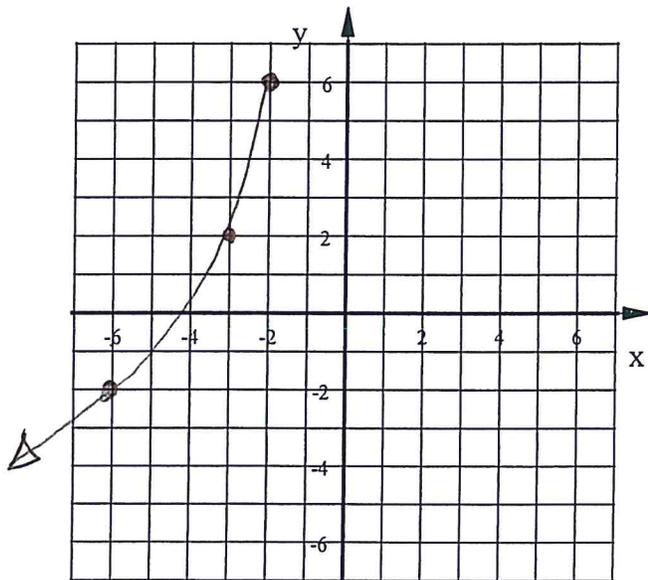


3. $y = \frac{1}{2}\sqrt{x-1} - 4$

1 RT
4 down
1/2 as tall



4. $y = -4\sqrt{-(x+2)} + 6$



2 left 6 up

4x taller

Backwards

Upside down

$\sqrt{1} \rightarrow -4\sqrt{1}$

$\frac{1}{4} \sqrt{2} \rightarrow -8\sqrt{4}$