

**Writing Equations given the transformations:**

1. The parent function  $f(x) = \sqrt{x}$  is <sup>square root</sup> reflected across the x-axis, stretched vertically by a factor of 4, and translated 1 unit up.

$$f(x) = -4\sqrt{x} + 1$$

2. The parent function  $f(x) = \sqrt[3]{x}$  is <sup>cubed root</sup> stretched horizontally by a factor of 2, reflected across the y-axis, and translated 3 units left.

$$f(x) = \sqrt[3]{-\frac{1}{2}(x+3)}$$

\* must include ( ) if you also have a "b" value

**Graphing Radicals with transformation. Use your graphing calculator to plot points.**

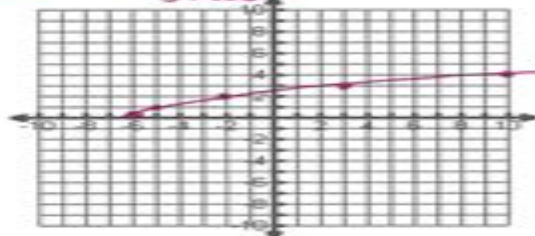
1.  $f(x) = \sqrt{x+6}$

\* Left 6

v: (-6, 0)

| x  | y     |
|----|-------|
| -7 | error |
| -6 | 0     |
| -5 | 1     |
| -2 | 2     |
| 3  | 3     |

"shoot"

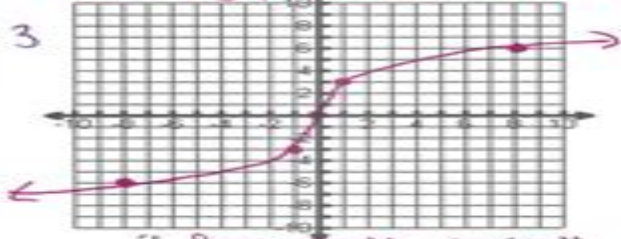


2.  $f(x) = 3\sqrt[3]{x}$

\* Vertical stretch by 3  
v: (0, 0)

| x  | y  |
|----|----|
| -8 | -6 |
| -1 | -3 |
| 0  | 0  |
| 1  | 3  |
| 8  | 6  |

\* Calc. may look like it has a gap but it doesn't



"free-style swim"

You try!

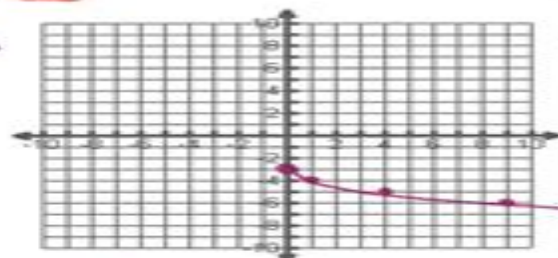
3.  $f(x) = -\sqrt{x-3}$

\* reflect x-axis

\* down 3

v: (0, -3)

| x | y  |
|---|----|
| 0 | -3 |
| 1 | -4 |
| 4 | -5 |
| 9 | -6 |



"bowling"

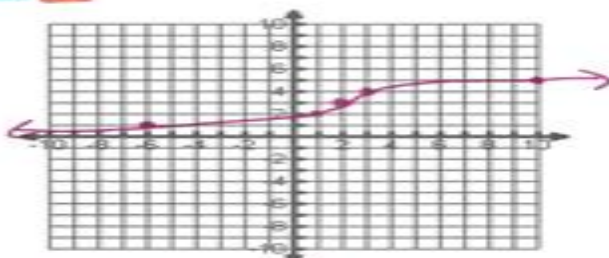
4.  $f(x) = \sqrt[3]{x-2} + 3$

\* right 2

\* up 3

v: (2, 3)

| x  | y |
|----|---|
| -6 | 1 |
| 1  | 2 |
| 2  | 3 |
| 3  | 4 |
| 10 | 5 |



"free-style swim"

\* A reflection on a cubed root would turn it into "back-stroke swim"

# Graph Rational Functions Worksheet Answers

**PT Brinkman**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

## Graph Rational Functions Worksheet Answers:

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*New York Math: Math B*, 2000      College Algebra: Graphs & Models John Coburn, J.D. (John) Herdlick, 2011 Three components contribute to a theme sustained throughout the Coburn Herdlick Series that of laying a firm foundation building a solid framework and providing strong connections In the Graphs and Models texts the authors combine their depth of experience with the conversational style and the wealth of applications that the Coburn Herdlick texts have become known for By combining a graphical approach to problem solving with algebraic methods students learn how to relate their mathematical knowledge to the outside world The authors use technology to solve the more true to life equation      **Algebra Teacher's Activities Kit** Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-11-30 Help your students succeed with classroom ready standards based activities The Algebra Teacher's Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it's crucial that students master the material and gain confidence in their abilities The Algebra Teacher's Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond      PC Mag, 1990-04-24 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and

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