G.N.A.W. Oh Radicals

Thanks for downloading my product!

Be sure to follow me for new products, free items and upcoming sales.

www.teacherspayteachers.com/Store/Jean-Adams www.flamingomath.com www.pinterest.com/jeanfaye/

Let's Connect . .











GNAW on Radicals

G.N.A.W. [Rule of Four]

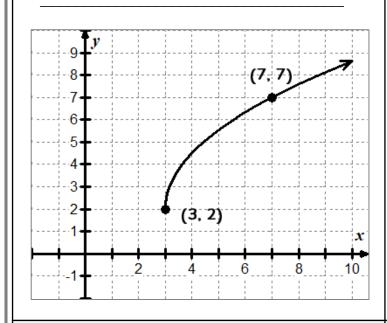
Name _____

Date ______ Period _____

Gra	aph	ical	ly

Numerically

Given the graph below, write the model for standard form of a radical equation:



Use the ordered pairs on the graph and the standard form of the equation to find the "a" value.

Algebraically

State the domain of the function.

Verbally

Write the standard form of the radical equation. Use this equation to find the value for x when y = 19.5.

- 2. State the range of the function.
- 3. Identify the values of *h* and *k*.
- 4. Describe the translation of the function from the parent graph $y = \sqrt{x}$

G.N.A.W. [Rule of Four]

Name KEY

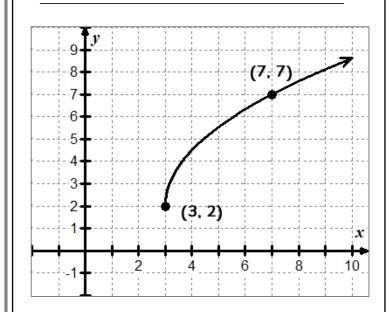
Date _____ Period _____

Graphically

Numerically

Given the graph below, write the model for standard form of a radical equation:

$$y = a\sqrt{x - h} + k$$



Use the ordered pairs on the graph and the standard form of the equation to find the "a" value.

$$7 = a\sqrt{7-3} + 2$$

$$5 = a\sqrt{4}$$

$$5 = 2a$$

$$a = 2.5$$

$$y = 2.5\sqrt{x-3} + 2$$

Algebraically

Verbally

Write the standard form of the radical equation. Use this equation to find the value for x when y = 19.5.

$$y = 2.5\sqrt{x - 3} + 2$$

$$19.5 = 2.5\sqrt{x-3} + 2$$

$$17.5 = 2.5\sqrt{x-3}$$

$$7 = \sqrt{x - 3}$$

$$49 = x - 3$$

$$x = 52$$

1. State the domain of the function.

$$[3,\infty)$$

2. State the range of the function.

$$\lceil 2, \infty \rangle$$

3. Identify the values of h and k.

$$h = 3, k = 2$$

4. Describe the translation of the function from the parent graph $y = \sqrt{x}$

The parent function have a vertical stretch by a factor of 2.5, is translated 3 units right and 2 units up.