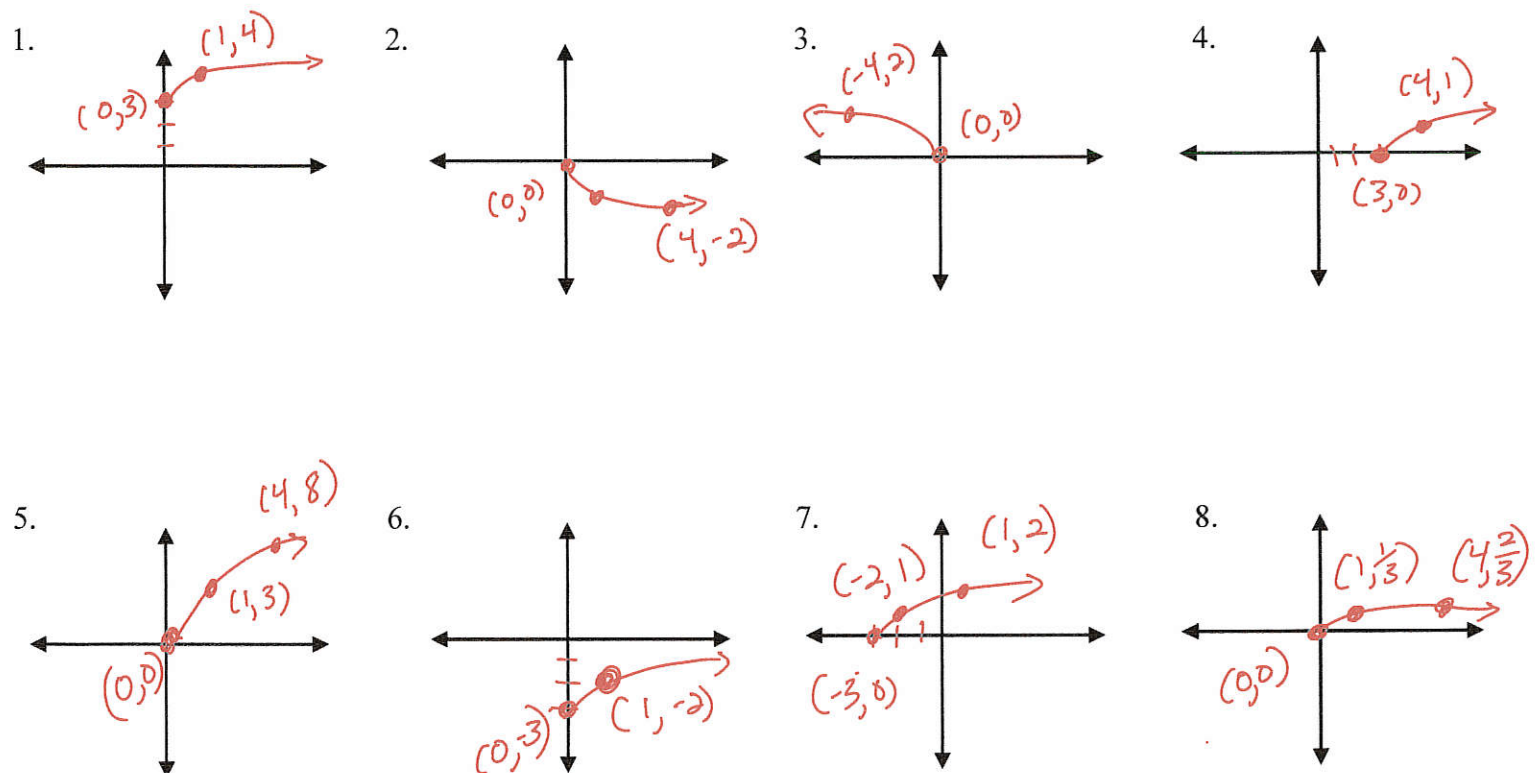


Warm-up: Transformation Practice

Part A. Matching. Describe what would happen to the graph of $f(x) = \sqrt{x}$ if the equation was changed.

- | | |
|--|--|
| <u>C</u> 1. $f(x) = \sqrt{x+3}$ | A. Graph moves three units to the right. |
| <u>E</u> 2. $f(x) = -\sqrt{x}$ | B. Graph moves three units to the left. |
| <u>F</u> 3. $f(x) = \sqrt{-x}$ | C. Graph moves three units up. |
| <u>A</u> 4. $f(x) = \sqrt{x-3}$ | D. Graph moves three down. |
| <u>G</u> 5. $f(x) = 3\sqrt{x}$ | E. Graph flips vertically (upside down) |
| <u>D</u> 6. $f(x) = \sqrt{x} - 3$ | F. Graph flips horizontally (points left instead of right) |
| <u>B</u> 7. $f(x) = \sqrt{x+3}$ | G. Graph grows higher faster -- three times |
| <u>H</u> 8. $f(x) = \frac{1}{3}\sqrt{x}$ | H. Graph grows higher slower -- one-third times faster |

Part B. Now graph functions 1- 8 above.



OVER →

Warm-up: Transformation Practice

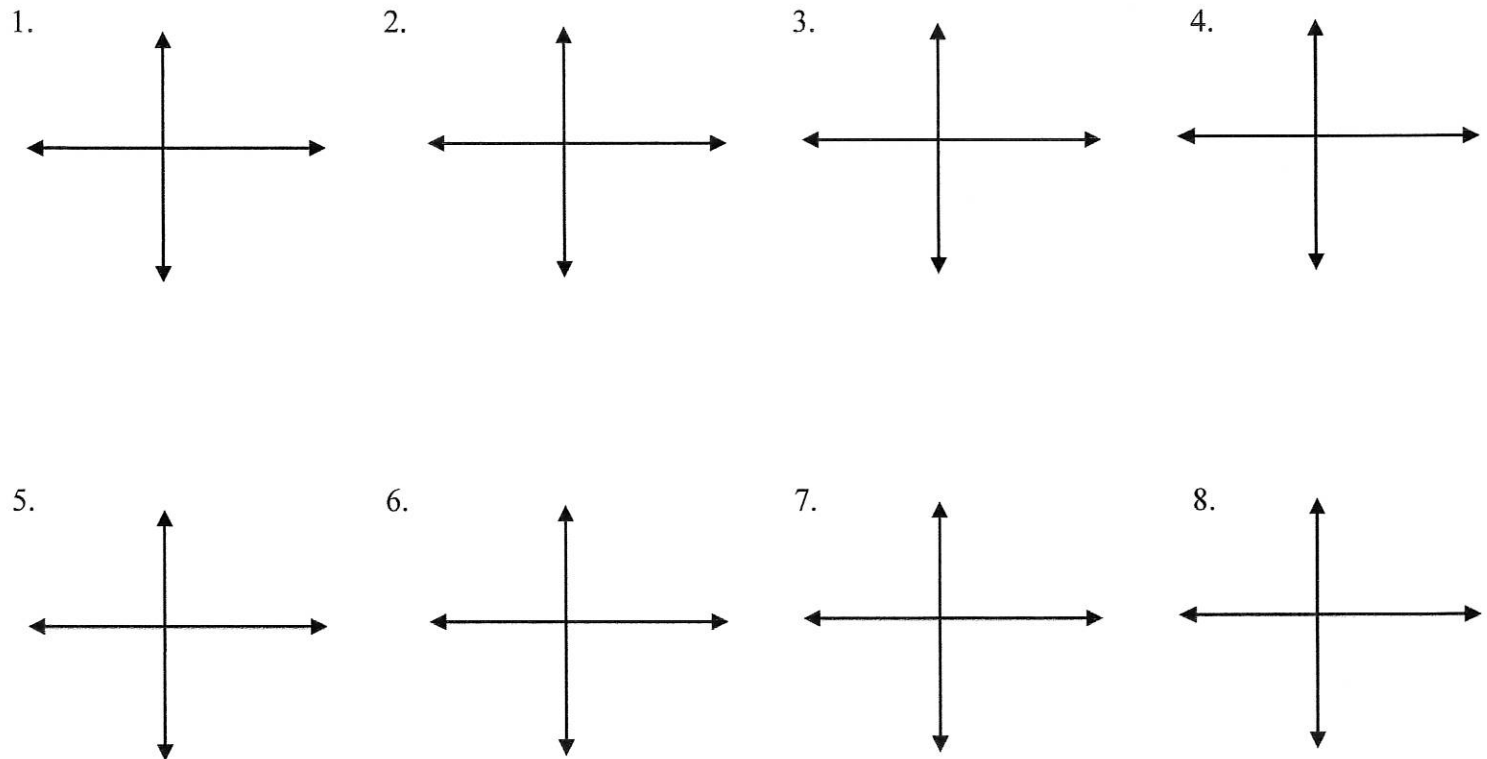
Name _____

Date: 8/26/13

Part A. Matching. Describe what would happen to the graph of $f(x) = \sqrt{x}$ if the equation was changed.

- | | |
|-------------------------------------|--|
| ___ 1. $f(x) = \sqrt{x+3}$ | A. Graph moves three units to the right. |
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Part B. Now graph functions 1- 8 above.



OVER →