## Friday, January 25, 2019 – 6<sup>th</sup>

- Warm-up
  - Using what you know about transformations and a parabola, sketch graphs of the following with domain restriction of  $\{x \mid x \ge 0\}$  in 4 different colors:
    - $f(x) = x^2$

    - $f(x) = 2x^2$   $f(x) = (x + 2)^2 3$   $f(x) = -1/3x^2$
- Square Root and Cube Root Functions Go, Boat, Go! Lesson 8-1 Square Root Functions

## **Objectives**: **Content**: I will graph and describe transformations of the square root function. **Social**: I will participate in the lesson. **Language**: I will write clear interpretations of the key features of a graph.

## Lesson 8-1 Square Root Functions page 103



- Instructions:
  - tear pages 103-106 out of your book and store your book under your desk
  - get a chromebook and go to desmos on google chrome
- Goal:
  - get through The lesson 8-1 practice before the end of 6<sup>th</sup> period

## **Objectives**:

**Content**: I will graph and describe transformations of the square root function. **Social**: I will participate in the lesson.

Language: I will write clear interpretations of the key features of a graph.

Friday, January 25, 2019 – 7<sup>th</sup>  $(x+2)^2 = (x+2)(x+2)$ 

- Warm-up
  - Solve each the following for x

 $4x^{2} - 9 = 0$  + 9 = 0 + 9 = 0 + 9 = 0 + 9 = 0 + 9 = 0 = 0 = 0 = 0 = 0 = 1 = 19 = 3 = 19 = 3

 $(x + 2)^{2} + 3 = 12$   $(x + 2)^{2} \neq 9$   $(x + 2)^{2} \neq 9$  x + 2 = 3  $\cdot 2 - 2$  X = 1

3 -  $1/3(x-4)^2 = -9.3$   $\sqrt{(x-4)^2} = -27$   $x - 4 = \sqrt{-27}$ NO real Solution

12.3

 Square Root and Cube Root Functions Go, Boat, Go! Lesson 8-2 Solving Square Root Equations Objectives: Content: I will solve square root equations. Social: I will participate in the lesson. Language: I will write a clear explanation of "extraneous solutions."