

Parent function project

You will be creating a parent function book. Each parent function will consist of at least 3 pages. The first page will consist of a verbal description of the parent function, the equation and a graph. You will also have domain, range, x intercepts, y intercepts, where it is increasing and/ or decreasing or constant, whether it is odd, even, or neither and any asymptotes. You will include the following functions:

- a. Linear
- b. Absolute Value
- c. Quadratic
- d. Cubic
- e. Square root
- f. Rational
- g. Exponential
- h. Circle

For extra credit you may include Greatest integer function, logarithmic, Sine function or Cosine function.

Page 2 will include a shift of the parent function. You must have a vertical shift, a horizontal shift and a stretch or shrink. You will have a verbal description, the equation for the shift, the domain, range, x intercepts, y intercepts, where it is increasing and/ or decreasing, and any asymptotes.

The third page will include a picture from a magazine, book, or your own picture. Highlight the image that shows the graph you are using.