**PAP Algebra 2 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Analyze Parent Functions**

Use the knowledge you know about all the parent functions to answer the following.

1. Which parent functions are always increasing?

2. Which parent functions are always decreasing?

3. Which parent functions have both increasing and decreasing parts?

4. Which parent functions have only vertical asymptotes?

5. Which parent functions have only horizontal asymptotes?

6. Which parent functions have both vertical and horizontal asymptotes?

7. Which parent functions have no asymptotes?

8. Which parent functions have a maximum point?

9. Which parent functions have a minimum point?

10. Which parent functions have a domain of all real numbers?

11. Which parent functions have a range of all real numbers?

12. Which parent functions have an even symmetry?

13. Which parent functions have an odd symmetry?

14. Which parent functions have no symmetry?

15. Which parent functions pass through the origin?

16. Which parent functions have no x -intercept?

17. Which parent functions have no y -intercept?

18. Which parent functions are positive except at ?

19. Which parent functions are negative for the interval of  and

positive for ?