

Parent Function Homework

1- 6 Give the name of the parent function.

1. $g(x) = x^2 - 1$

2. $g(x) = x^3 + 3$

3. $f(x) = 2|x-1|$

4. $g(x) = \frac{1}{x+6}$

5. $h(x) = \sqrt{x-2}$

6. $f(x) = 4x - 3$

7- 14 Draw the basic graph for the *parent* function.

7. $h(x) = \frac{1}{x} - 5$

8. $f(x) = \frac{3}{4}\sqrt{x}$

9. $g(x) = \log_2(x + 1)$

10. $h(x) = 6(x + 9)^2$

11. $h(x) = -x^2 + 1$

12. $h(x) = -|x - 2|$

13. $f(x) = 4^{x-1} + 2$

14. $g(x) = 2x + 1$

#15 – 22 Given an example of an equation represented by the following family of functions. (Do not use any of the examples from #1 -14!)

15. Absolute value _____

16. Quadratic _____

17. Square root _____

18. Logarithmic _____

19. Cubic _____

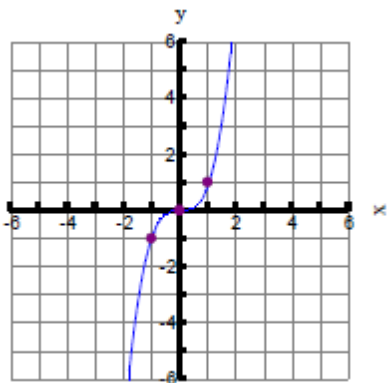
20. Linear _____

21. Reciprocal _____

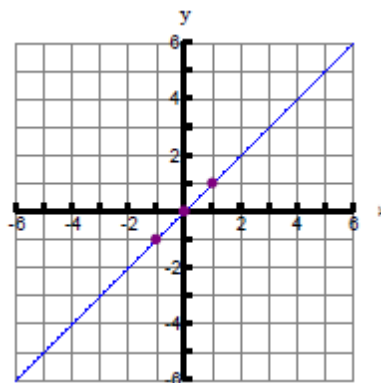
22. Exponential _____

#23 – 28 Name the parent function for each of the following graphs/tables.

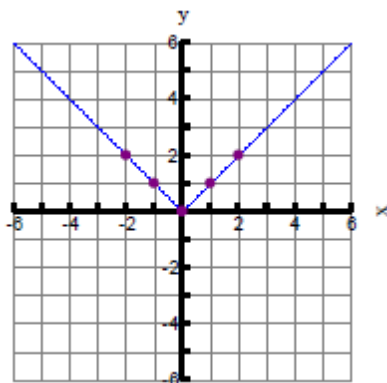
23. _____



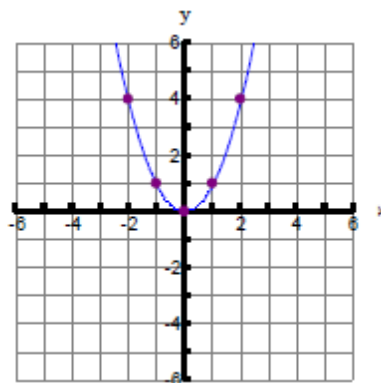
24. _____



25. _____



26. _____



27. _____

x	y
-1	4
0	5
3	6
8	7
15	8

28. _____

x	y
-2	-2
-1	-4
1	4
2	2
4	1

