

Parent Function Homework: due next class**# 1- 7 Name of the parent function for each of the following equations.**

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

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

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

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

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

6. $f(x) = 2x + 7$

7- 12 Name the parent function for each of the following equations *and* draw the parent function graph.

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

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

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

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

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

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

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

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

#15 – 22 Give 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 _____

17. Logarithmic _____

19. Cubic _____

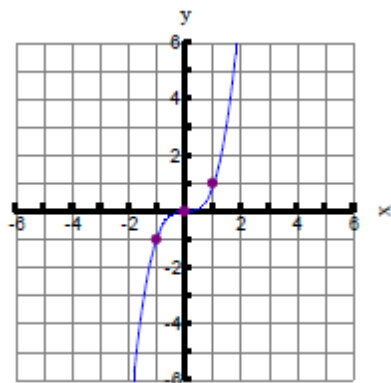
20. Linear _____

21. Reciprocal _____

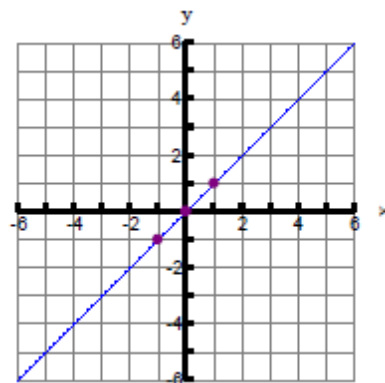
22. Exponential _____

#23 – 30 Name the parent function for each of the following graphs/tables.

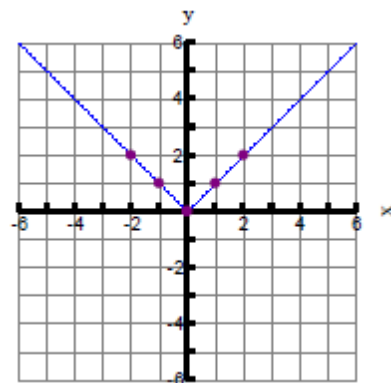
23. _____



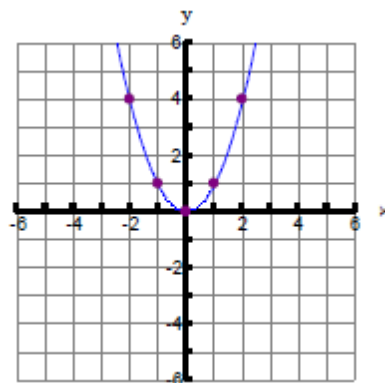
24. _____



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