

Alg 2 Fam of Fun Transformation WS1 Name _____ hr ____

1- 7 Give the name of the parent function and describe the transformation represented.

1. $g(x) = x^2 - 1$ Name: _____

Transformation: _____

2. $f(x) = 2|x-1|$ Name: _____

Transformation: _____

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

Transformation: _____

4. $g(x) = x^3 + 3$ Name: _____

Transformation: _____

5. $f(x) = |x + 5| - 2$ Name: _____

Transformation: _____

6. $g(x) = 3\sqrt{x}$ Name: _____

Transformation: _____

7. $h(x) = -x^2 + 1$ Name: _____

Transformation: _____

8. $h(x) = -|x - 2|$ Name: _____

Transformation: _____

9. $f(x) = \frac{3}{4}\sqrt{x}$ Name: _____

Transformation: _____

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

Transformation: _____

For each of the following, name the transformation.

11. $y = f(3x)$

12. $y = f(x + 2)$

13. $y = f(x) + 5$

14. $y = \frac{1}{2}f(x)$

15. $y = f(-x)$

16. $y = f(x - 7)$

18. $y = 4f(x)$

19. $y = f\left(\frac{1}{2}x\right)$

20. $y = -f(x)$