

For each problem, write the name of the function family. In the blank below each equation, write the equation of the parent function. Then describe the transformation(s) using the proper vocabulary:

stretch/shrink/reflection/translation/horizontal/vertical/#'s w/ R, L, U, D

1. $g(x) = |x + 2|$ Name: _____

_____ Transformation(s): _____

2. $f(x) = 5\sqrt{x + 3}$ Name: _____

_____ Transformation(s): _____

3. $h(x) = x^2 - 4$ Name: _____

_____ Transformation(s): _____

4. $g(x) = 0.4\sqrt[3]{x} - 2$ Name: _____

_____ Transformation(s): _____

5. $f(x) = -\log(x+3)$ Name: _____

_____ Transformation(s): _____

6. $g(x) = 2^{x-3} + 4$ Name: _____

_____ Transformation(s): _____

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

_____ Transformation(s): _____

8. $f(x) = -3x + 1$ Name: _____

_____ Transformation(s): _____

9. $f(x) = \frac{1}{2}(x-1)^3 + 9$ Name: _____

_____ Transformation: _____

10. $g(x) = 6\left(\frac{1}{3}\right)^{2(x+5)} - 7$ Name: _____

_____ Transformation: _____