

Homework Week #1

Name _____

“If you can dream it, you can do it.” – Walt Disney

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. $g(x) = \frac{1}{x+6}$ Name: _____

Transformation: _____

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

Transformation: _____

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

Transformation: _____

#8 - 12 Given the parent function and a description of the transformation, write the equation of the transformed function, $f(x)$.

8. Absolute value—vertical shift up 5, horizontal shift right 3. _____

9. Radical—vertical compression by $\frac{2}{5}$ _____

10. Cubic—reflected over the x axis and vertical shift down 2 _____

11. Rational—horizontal shift left 4. _____

12. Quadratic—vertical compression by .45, horizontal shift left 8. _____