

Transformation Worksheet Name _____ Pd. ____

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. $g(x) = x - 6$ Name: _____

Transformation: _____

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

Transformation: _____

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

Transformation: _____

#8-11 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. _____

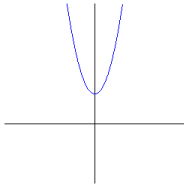
9. Radical—vertical compression by $\frac{2}{5}$ _____

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

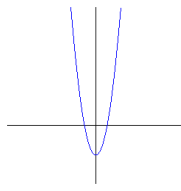
11. Quadratic—vertical compression by 0.5, horizontal shift left 8. _____

12. Which graph best represents the function $f(x) = 2x^2 - 2$? _____

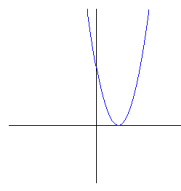
a.



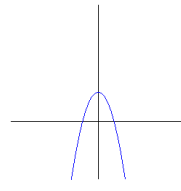
b.



c.



d.



13. Name the six parent functions that we are studying.
