

# Parent Graphs & Transformations

For problems 1- 7, please give the name of the parent function and describe the transformation represented. Give the domain and range of each function.

1.  $g(x) = x^2 - 12$       Parent: \_\_\_\_\_

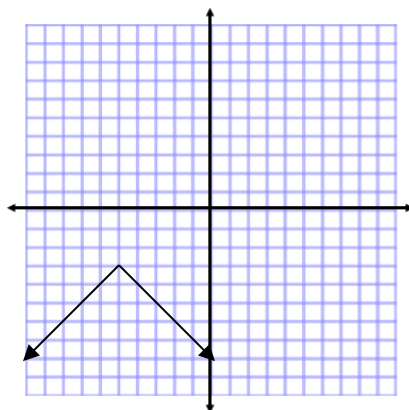
Transformations: \_\_\_\_\_

Domain \_\_\_\_\_ Range \_\_\_\_\_

2. Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_ Equation \_\_\_\_\_

Domain \_\_\_\_\_ Range \_\_\_\_\_

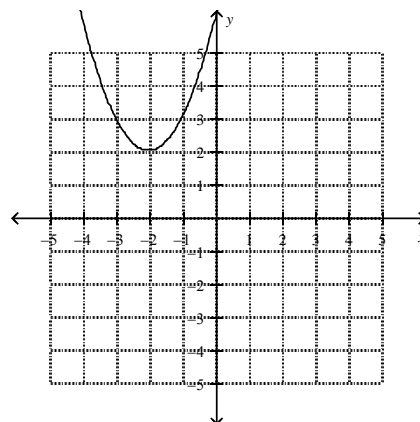


3. Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_

Equation \_\_\_\_\_

Domain \_\_\_\_\_ Range \_\_\_\_\_



4.  $g(x) = -(x+1)^3 + 3$

Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_

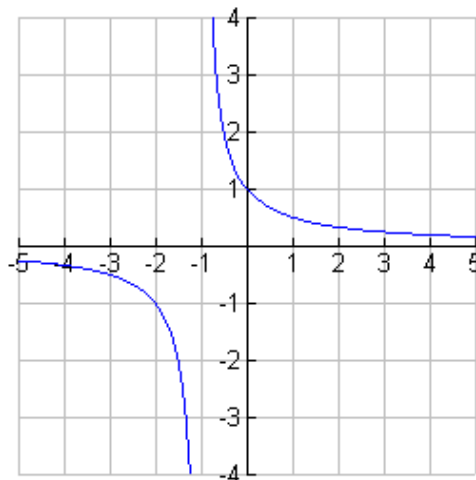
Domain \_\_\_\_\_ Range \_\_\_\_\_

5. Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_

Equation \_\_\_\_\_

Domain \_\_\_\_\_ Range \_\_\_\_\_



6.  $f(x) = \sqrt{x+4} - 3$

Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_

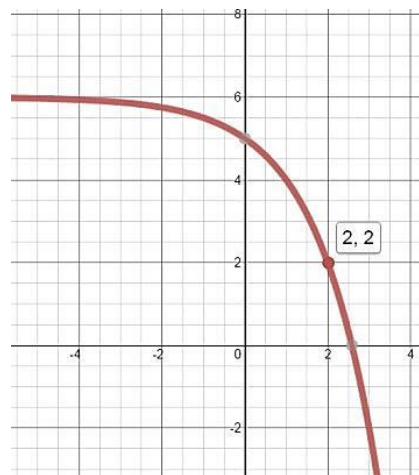
Domain \_\_\_\_\_ Range \_\_\_\_\_

7. Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_

Equation \_\_\_\_\_

Domain \_\_\_\_\_ Range \_\_\_\_\_



8. In your own words, describe the best method to remember the effects of  $a$ ,  $h$ , and  $k$  on a parent function,

$$a \cdot f(x+h) + k.$$

---



---



---



---