

Name: \_\_\_\_\_ Period: \_\_\_\_\_

### Identifying Transformations on the Parent Logarithmic graph

*(Graph the pair of functions, write the parent function, describe in using words the transformation, and identify the child function)*

1) Parent Graph \_\_\_\_\_

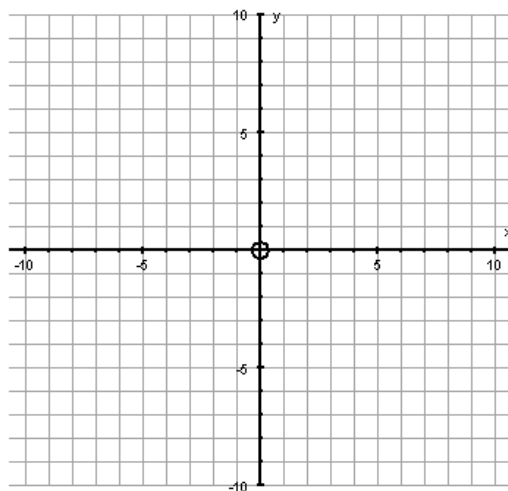
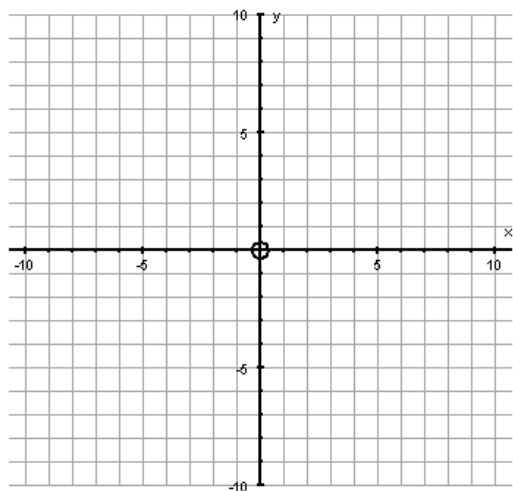
2) Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

Transformation: \_\_\_\_\_

Child Function: \_\_\_\_\_

Child Function: \_\_\_\_\_



3) Parent Graph \_\_\_\_\_

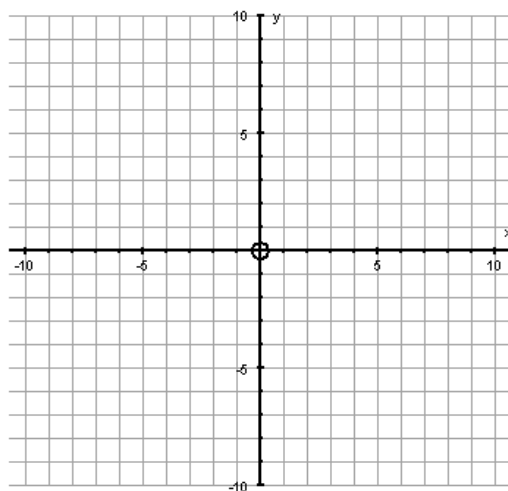
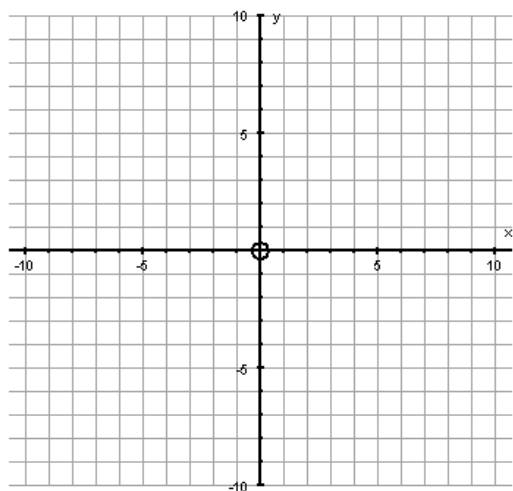
4) Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

Transformation: \_\_\_\_\_

Child Function: \_\_\_\_\_

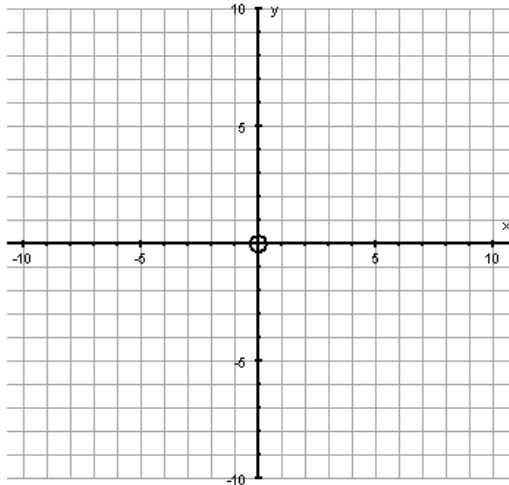
Child Function: \_\_\_\_\_



5) Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

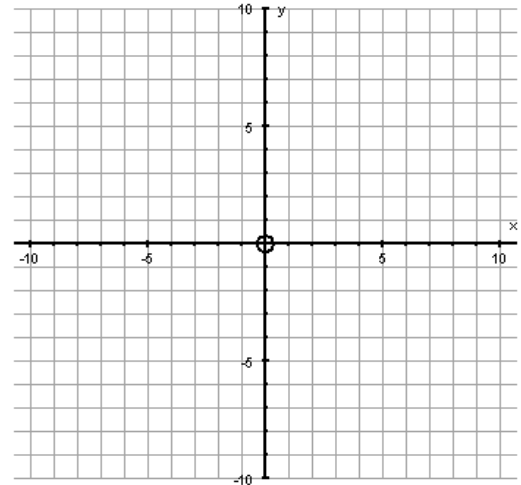
Child Function: \_\_\_\_\_



6) Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

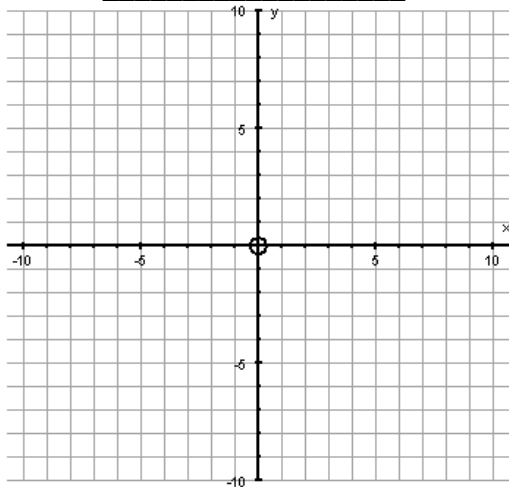
Child Function: \_\_\_\_\_



7) Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

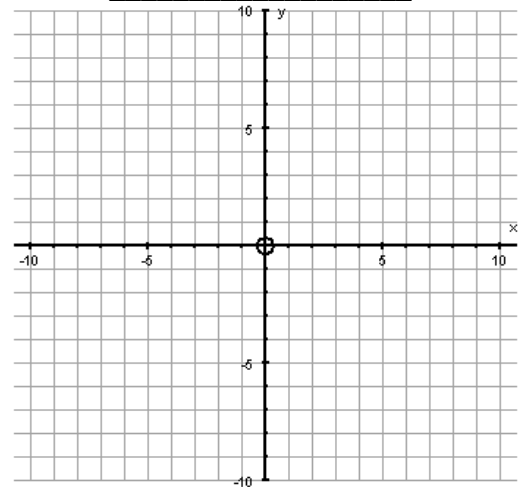
Child Function: \_\_\_\_\_



8) Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

Child Function: \_\_\_\_\_



9) (Open ended) write a logarithmic function that incorporates two transformations and graph it to the right.

Parent Graph \_\_\_\_\_

Transformation: \_\_\_\_\_

Transformation: \_\_\_\_\_

Child Function: \_\_\_\_\_

