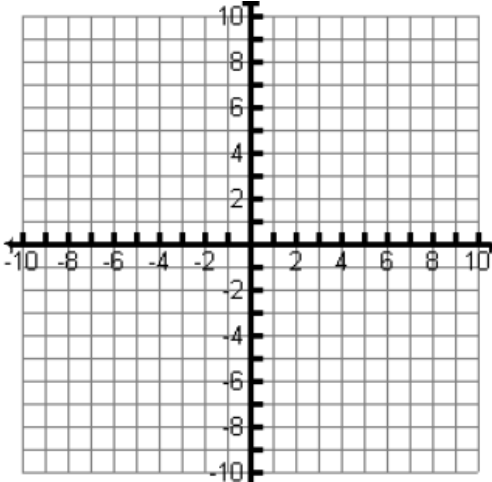


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

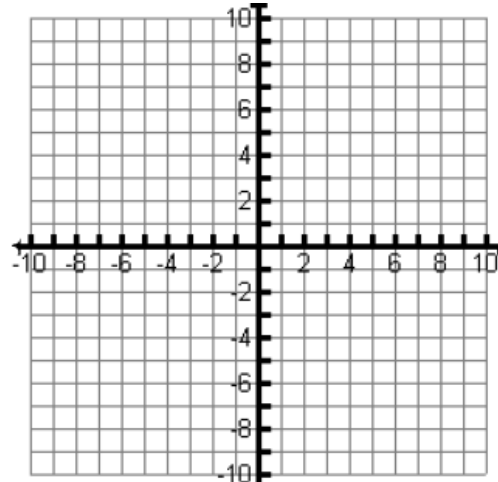
### Graphing Parent Functions with Transformations Worksheet

Graph each function listed below without the use of a calculator. Graph with accuracy. Each graph must include at least three plotted points but more if it is possible to fit on the graph.

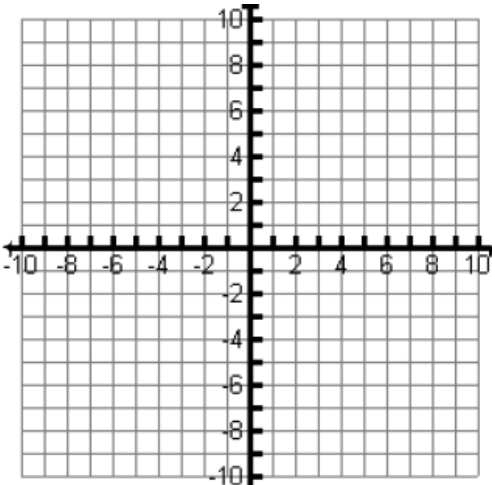
1.  $f(x) = (x-5)^2 + 3$



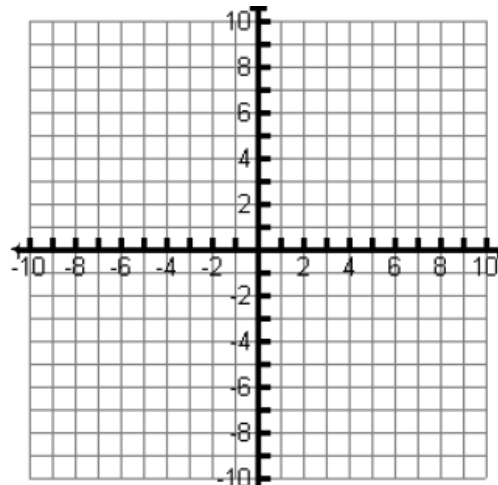
2.  $f(x) = (x+2)^2 - 6$



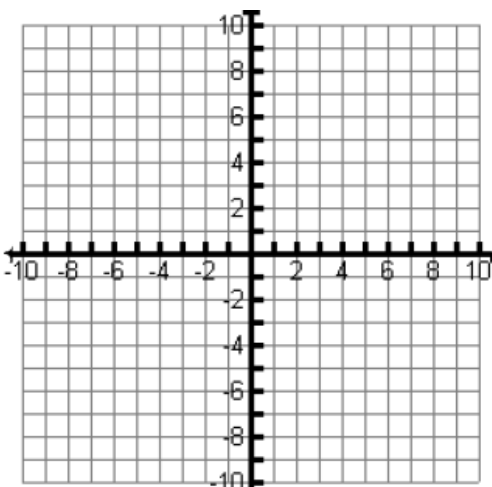
3.  $f(x) = \sqrt{x-4} - 2$



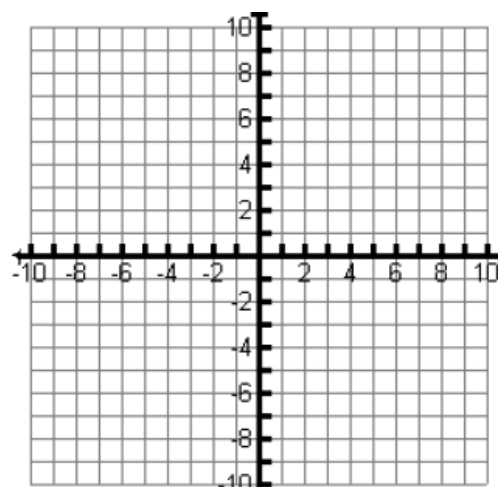
4.  $f(x) = \sqrt{x+7} + 3$



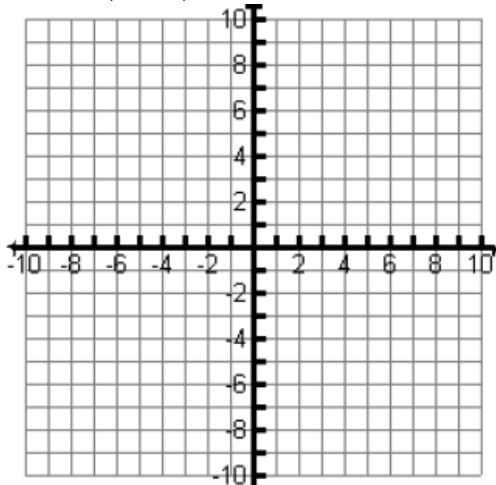
5.  $f(x) = (x+2)^3 + 4$



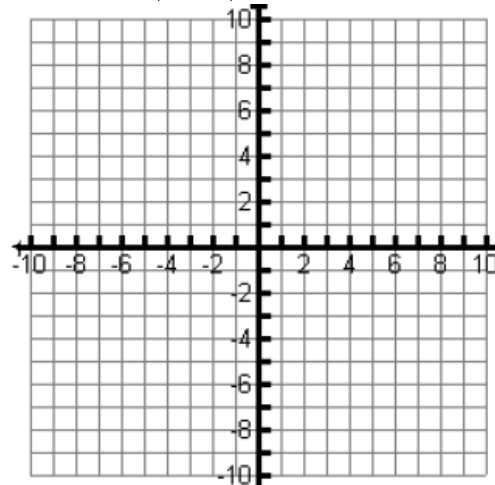
6.  $f(x) = (x-1)^3 - 5$



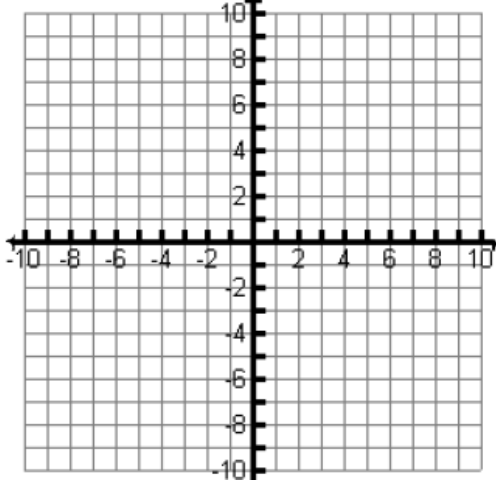
7.  $f(x) = |x - 5| + 2$



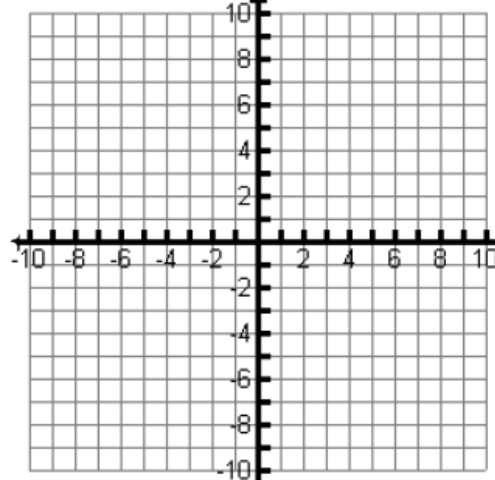
8.  $f(x) = |x + 3| - 4$



9.  $f(x) = \sqrt[3]{x+1} - 2$



10.  $f(x) = \sqrt[3]{x-7} + 3$



11.  $f(x) = \frac{1}{x}$  is another parent function. Use the given tables of values to help you graph this.

x	y
-10	
-9	
-8	
-7	
-6	
-5	
-4	
-3	
-2	
-1	
-1/2	
-1/4	
-1/8	

0	
1/8	
1/4	
1/2	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

