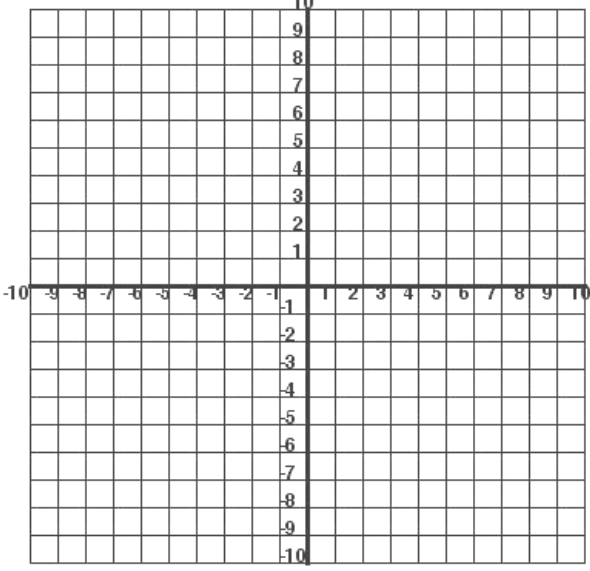


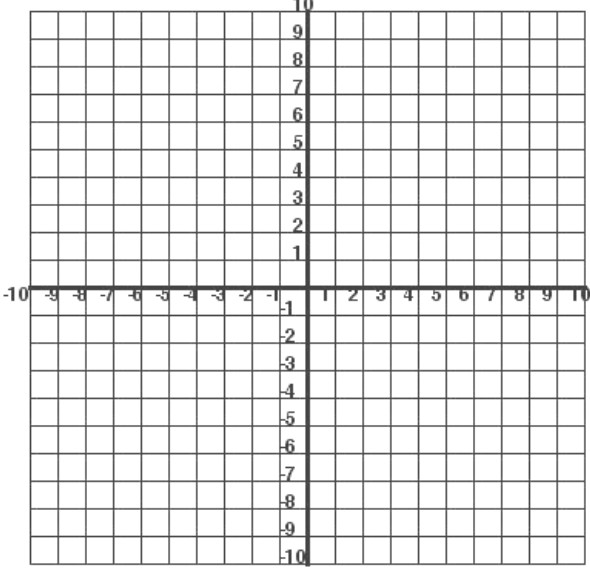
Trigonometry/PreCalculus Level 1
Parent Functions

INSTRUCTIONS: For each function provided below, you must sketch an **accurate** graph on the corresponding grid by point-plotting and connecting the points. **You will describe the following characteristics of each function: domain, range, intercepts, continuity, end behavior, and intervals on which the graph is increasing/decreasing.**

1. Parent Function: $f(x) = x$

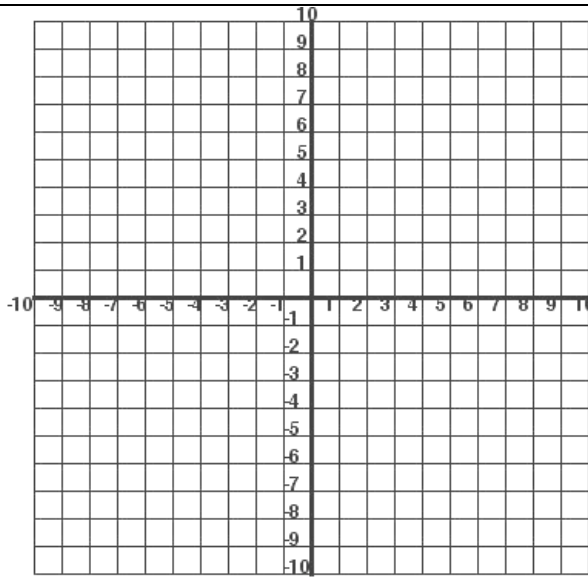
x	$f(x)$		
-5			Domain:
-4			Range:
-3			Intercepts:
-2			Continuity:
-1			End behavior:
0			Increasing:
1			Decreasing:
2			Constant:
3			
4			
5			

2. Parent Function: $f(x) = x^2$

x	$f(x)$		
-5			Domain:
-4			Range:
-3			Intercepts:
-2			Continuity:
-1			End behavior:
0			Increasing:
1			Decreasing:
2			Constant:
3			
4			
5			

3. Parent Function: $f(x) = x^3$

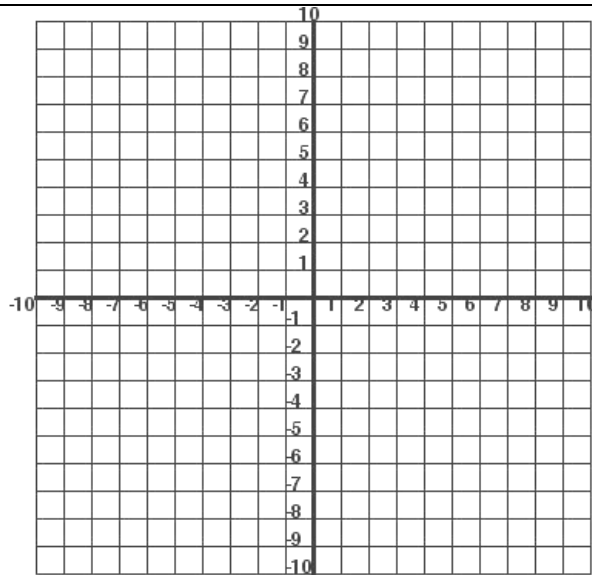
x	$f(x)$
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	



Domain:
 Range:
 Intercepts:
 Continuity:
 End behavior:
 Increasing:
 Decreasing:
 Constant:

4. Parent Function: $f(x) = \sqrt{x}$

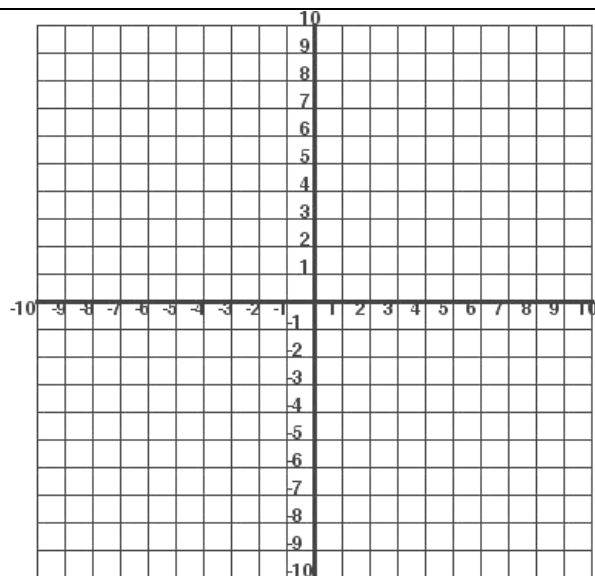
x	$f(x)$
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	



Domain:
 Range:
 Intercepts:
 Continuity:
 End behavior:
 Increasing:
 Decreasing:
 Constant:

5. Parent Function: $f(x) = \frac{1}{x}$

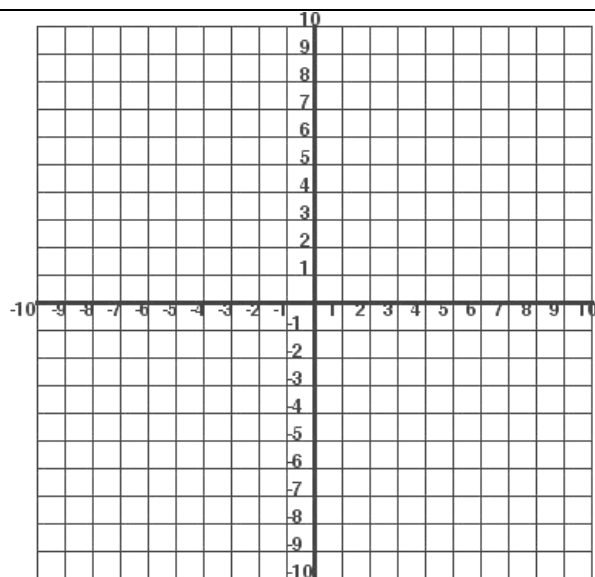
x	$f(x)$
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	



Domain:
 Range:
 Intercepts:
 Continuity:
 End behavior:
 Increasing:
 Decreasing:
 Constant:

6. Parent Functions: $f(x) = |x|$

x	$f(x)$
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	



Domain:
 Range:
 Intercepts:
 Continuity:
 End behavior:
 Increasing:
 Decreasing:
 Constant: