h(x)

## 8.3 Shifting & Reflecting Graphs CYU

 $\square$  Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

HUse when you could do it alone with a little help from teacher or peer

 ${\it G}$  Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Graphing quadratics	1, 3, 8		
Graphing absolute value	2, 4, 6, 10		
Graphing radicals		5, 7, 9	
Using the calculator to fill t-charts	1 - 10		
Describing transformations	1 - 4	5 - 10	
Domain and range in interval notation	1 - 4, 6, 8, 10	5, 7, 9	

Sketch the graph of each function (you may use a calculator). Fill in the t-chart provided. Plot those points on the graph provided. Describe the transformation from the parent function. Then state the domain and range.

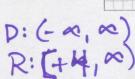
f(x)

(q(x)



X	у
-2	7
-1	5
0	4
1	5
2	7

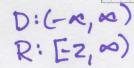
14 u



2. h(x) = |x| - 2

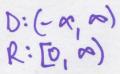
Х	У
-2	D
-1	-1
0	-2
	-1
2	D

+2u



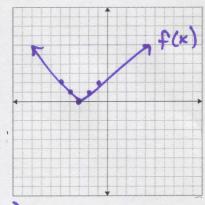
## 3. $g(x) = (x-4)^2$

Х	У
2	4
3	1
4	0
5	
6	4
	1

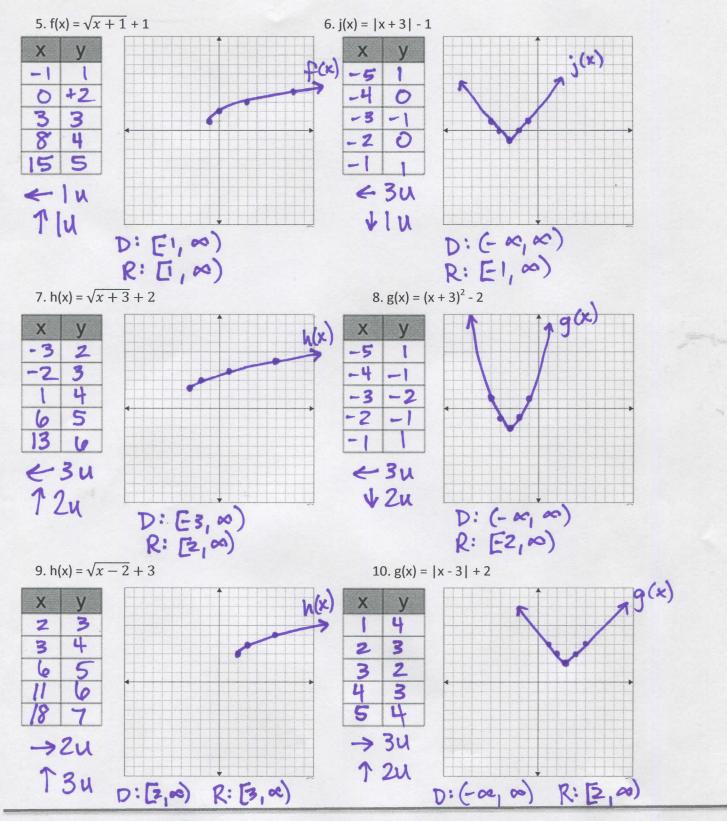


## 4. f(x) = |x + 3|

Х	У
-1	2
-2	1
-3	0
-4	1
-5	2



∠ 3u D: (-≈,∞) R: [0,∞)



CYU Reflection: How far can you go: basic, intermediate, or advanced?

## Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

