Name **Key**   Date _____ Pd __

CYU 1.1 Parent Functions

☑ *Use when you get it right all by yourself*

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

H *Use when you could do it alone with a little help from teacher or peer*

G *Use when you completed the problem in a group*

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

N *Use when a question was not even attempted*

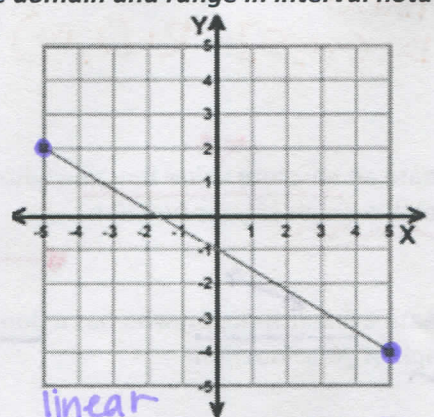| CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Constant, linear, absolute value, & Quadratic parent function: name, equation, graph	2, 5, 7	3, 4	1, 6, 8
Domain & Range in interval notation	4	1, 2, 3, 5	6, 7, 8

Write the name of the parent function, state the domain and range in interval notation.
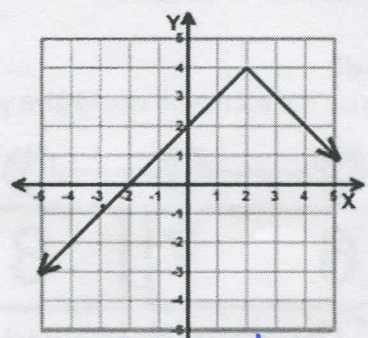
1.
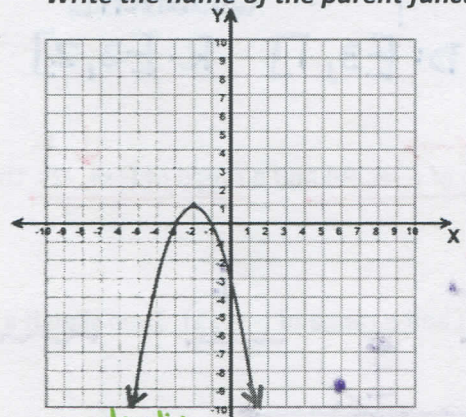
quadratic
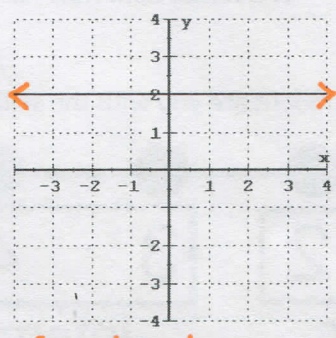D: $(-\infty, \infty)$ R: $(-\infty, 1]$

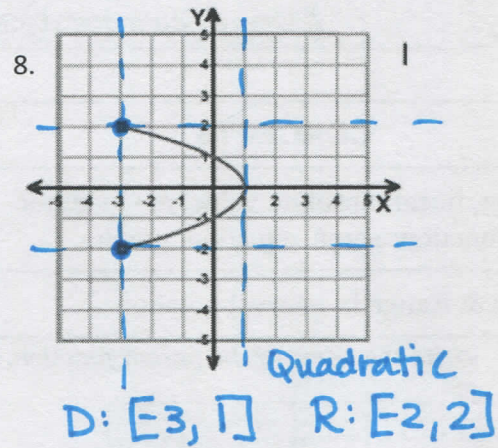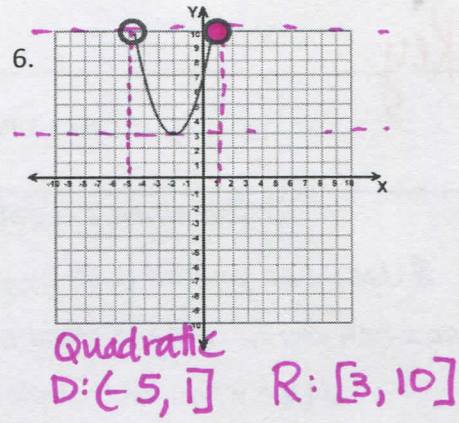2.

linear
D: $[-5, 5]$ R: $[-4, 2]$

3.

Absolute value
D: $(-\infty, \infty)$ R: $(-\infty, 4]$

4.

Constant
D: $(-\infty, \infty)$ R: $[2]$

5.

linear
D: (-1, 5) R: (1, 5)

6.

Quadratic
D: (-5, 1] R: [3, 10]

7.

linear
D: (-∞, 5] R: [1, ∞)

8.

Quadratic
D: [-3, 1] R: [-2, 2]
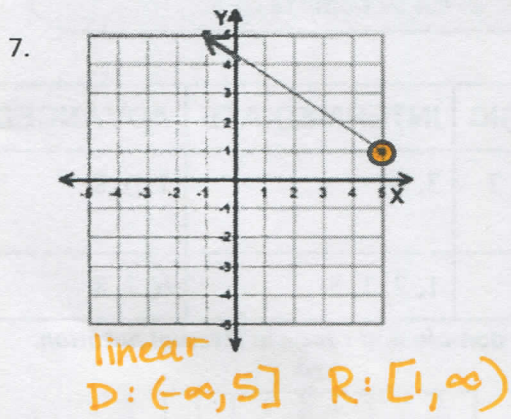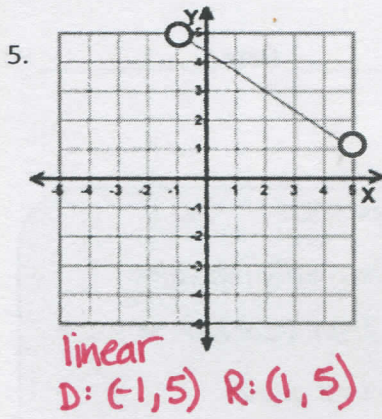
9. Create an absolute value function who has a domain of (- ∞, ∞) and a range of (- ∞, -2). Then sketch a graph of your function.

10. Create a linear function who has a domain of (- ∞, 2] and a range of (- ∞, 1]. Then sketch a graph of your function.

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.

| 1   2 | 3   4   5 | 6   7 | 8 |
| Basic | Intermediate | Advanced | Solved ALL! |