Name Key Date _____ Pd __

CYU 1.1 Parent Functions DAY TWO

☑ *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*

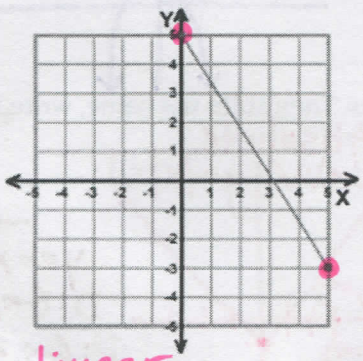
X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Constant, linear, absolute value, & Quadratic parent function: name, equation, graph	1,2,3,4 5,6	7, 8	9
Domain & Range in interval notation	1,2,3,4 5,6	7, 8	9

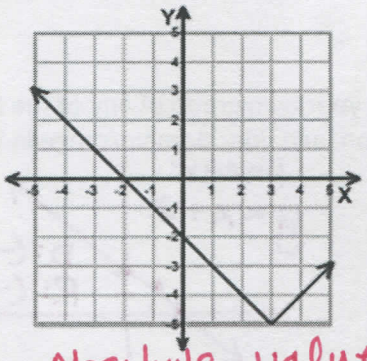
Write the name of the parent function, state the domain and range in interval notation.

1.



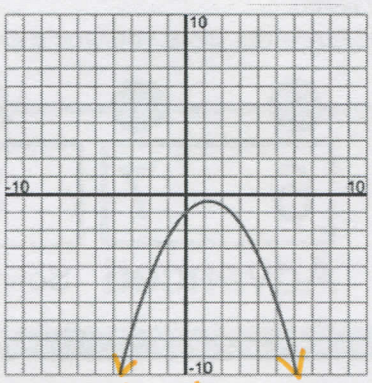
Linear
D: [0,5] R: [-3,5]

2.



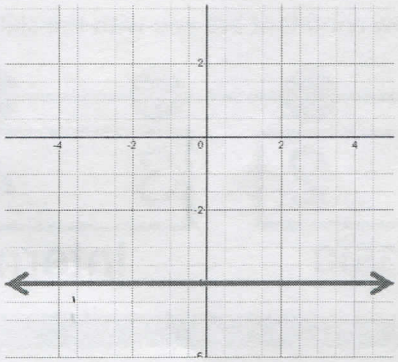
Absolute value
D: $(-\infty, \infty)$ R: $[5, \infty)$

3.

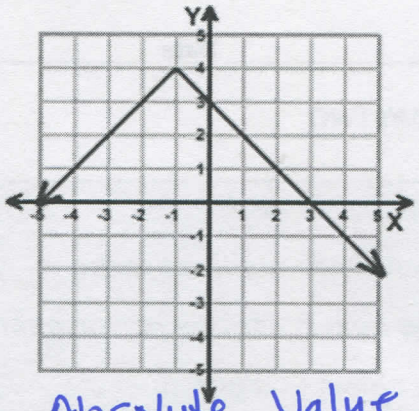


Quadratic
D: $(-\infty, \infty)$ R: $(-\infty, -\frac{1}{2}]$

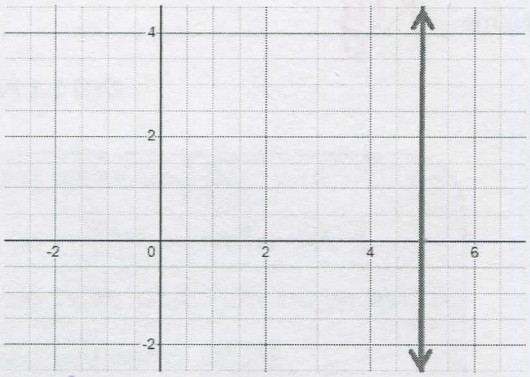
4.



Constant
$y = -4$
D: $(-\infty, \infty)$ R: $[-4]$

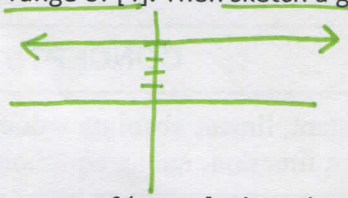
5. 

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

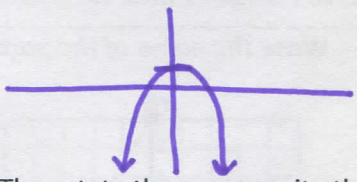
6. 

Constant
D: [5] R: $(-\infty, \infty)$

7. Create a constant function who has a domain of $(-\infty, \infty)$ and a range of [4]. Then sketch a graph of your function.

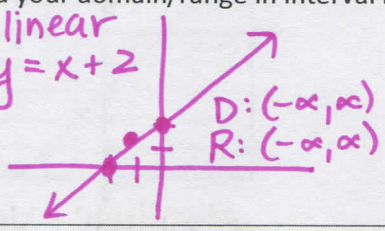


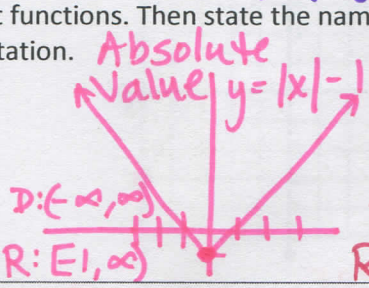
8. Create a quadratic function who has a domain of $(-\infty, \infty)$ and a range of $(-\infty, 1]$. Then sketch a graph of your function.

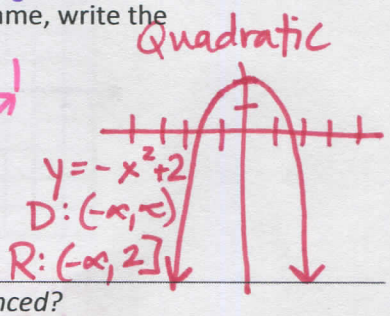


9. Sketch your own graph of any of the four parent functions. Then state the name, write the equation, and your domain/range in interval notation.

Constant
D: [-3]
R: $(-\infty, \infty)$
$x = -3$







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.