Name Key Date _____ Pd ____

8.2 Function Notation & Graphing Nonlinear Functions DAY ONE CYU

☑ *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*

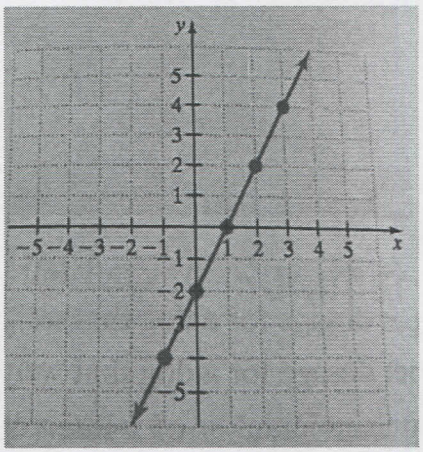
G *Use when you completed the problem in a group*

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

N *Use when a question was not even attempted*

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED

Use the graph of the following function f(x) to find each value.



1) f(1) 0

2) f(0) -2

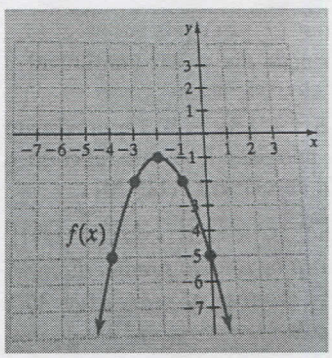
3) f(- 1) -4

4) f(2) 2

5) f(x) = 4 3

6) f(x) = - 6 -2

Use the graph of the functions provided to answer the following questions.



7) If f(1) = - 10, then write the corresponding ordered pair. (+1, -10)

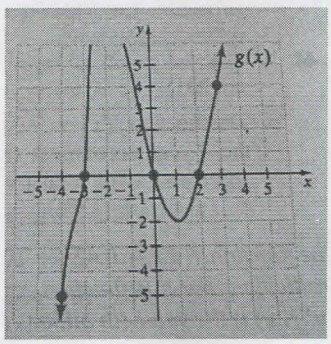
8) If g(4) = 56, then write the corresponding ordered pair. (4, 56)

9) Find f(- 1) = -2

10) Find f(- 2) = -1

11) Find g(2) = 0

12) Find g(- 4) = -5



13) Find all values of x such that f(x) = - 5. -4, 0 = x

14) Find all values of x such that g(x) = 0. x = -3, 0, 2

Find the following roots.

15) $\sqrt{49}$

7

16) $\sqrt{144}$

12

17) $-\sqrt{\frac{4}{9}}$

$-\frac{2}{3}$

18) $-\sqrt{\frac{4}{25}}$

$-\frac{2}{5}$

19) $\sqrt{64}$

8

20) $\sqrt{4}$

2

21) $\sqrt{81}$

9

22) $\sqrt{1}$

1

23) $\sqrt{-100}$

non-real or $10i$

Solve the following equations.

24) $3(x-2)+5x=6x-16$

$x=-5$

25) $5+7(x+1)=12+10x$

$x=0$

26) $3x+\frac{2}{5}=\frac{1}{10}$

$x=-\frac{1}{10}$

27) $\frac{1}{6}+2x=\frac{2}{3}$

$x=\frac{1}{4}$

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.