## 8.1 - 8.3 Review DAY TWO CYU

☐ Use when you get it right all by yourself

 ${m S}$  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

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

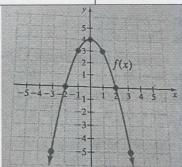
X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

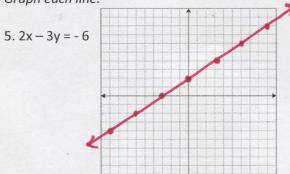
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Synthetic Substitution	1, 2	17	17
Function Notation	1, 2	3, 4	
Graphing equations	6	5	18 - 20
Writing equations/functions	7 - 9	10	11 - 13
Domain & Range	14 - 16		18 - 20
Creating t-charts	18 - 20		

Use the graph of the function f to find each value.

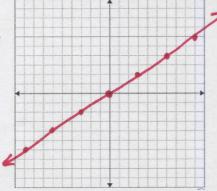
- 1. Find f(1). 3
- 2. Find f(-3). -5
- 3. Find all values of x such that f(x) = 0. 2, -2
- 4. Find all values of x such that f(x) = 4.



Graph each line.



$$6. f(x) = \frac{2}{3}x$$



Find an equation of each line satisfying the given conditions. Write in standard form using function notation.

7. horizontal through (2, -8)

$$y = -8$$
  $f(x) = -8$ 

9. through (0, -2); slope 5

$$f(x) = 5x + 2$$

11. Through (-1, 2); perpendicular to 3x - y = 4

$$f(x) = -\frac{1}{3}x + \frac{5}{3}$$

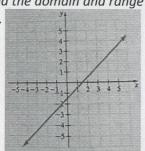
8. Through (4, -1); slope -3

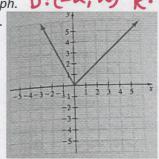
- 3x + y = 11 f(x) = -3x + 11
- 10. Through (4, 2) and (6, 3)

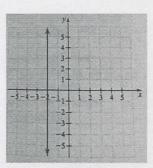
12. Parallel to 2y + x = 3; through (3, -2)

13. Line  $L_1$  has the equation 2x - 5y = 8. Line  $L_2$  passes through the points (1, 4) and (-1, -1). Determine whether these lines are parallel lines, perpendicular lines, or neither.

Find the domain and range of each graph. D: (-\*, \*) P: [0,\*)

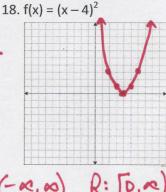






- 17. For the 2014 Major League Baseball season, the following linear function describes the relationship between a team's payroll x(in millions of dollars) and the number of games y that team won during the regular season. Round to the nearest whole number. f(x) = 0.024x + 79.44
  - a) According to this equation, how many games would have been won during the 2014 season by a team with a payroll of \$90 million?
  - b) The New York Yankees had a payroll of \$204 million in 2014. According to this equation, how many games would they have won during the season? 24 games
  - c) According to this equation, what payroll would have been necessary in 2014 to have won 95 games during the season?

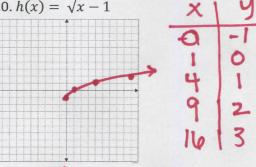
d) Find and interpret the slope of the equation. m = 0.024 : Even Create a t-chart with 5 coordinates, graph the function provided, and state the domain and range in interval notation.



19. g(x) = -|x+2| - 1



 $20. h(x) = \sqrt{x} - 1$ 



R: [0,0) D: (- K, N)

R: [-1,00)

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.

