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

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

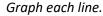
X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

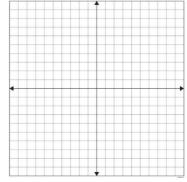
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Synthetic Substitution	1, 2	17	17
Function Notation	1, 2	3, 4	
Graphing equations	6	5	18 - 20
Writing equations/functions	7 - 9	10	11 - 13
Domain & Range	14 - 16		18 - 20
Creating t-charts	18 - 20		

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

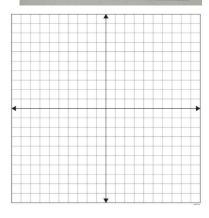
- 1. Find f(1).
- 2. Find f(- 3).
- 3. Find all values of x such that f(x) = 0.
- 4. Find all values of x such that f(x) = 4.



5.
$$2x - 3y = -6$$



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



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

7. horizontal through (2, -8)

8. Through (4, -1); slope – 3

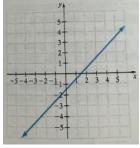
9. through (0, - 2); slope 5

- 10. Through (4, 2) and (6, 3)
- 11. Through (-1, 2); perpendicular to 3x y = 4
- 12. Parallel to 2y + x = 3; through (3, -2)

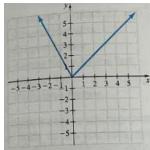
13. Line L_1 has the equation 2x - 5y = 8. Line L_2 passes through the points (1, 4) and (-1, -1). Determine whether these lines are parallel lines, perpendicular lines, or neither.

Find the domain and range of each graph.

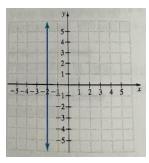
14.



15.



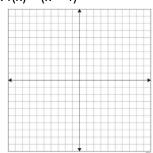
16.



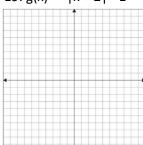
- 17. For the 2014 Major League Baseball season, the following linear function describes the relationship between a team's payroll x(in millions of dollars) and the number of games y that team won during the regular season. Round to the nearest whole number. f(x) = 0.024x + 79.44
 - a) According to this 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?
 - 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.

Create a t-chart with 5 coordinates, graph the function provided, and state the domain and range in interval notation.

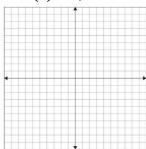
18.
$$f(x) = (x-4)^2$$



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



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



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.

