Name _____ Date _____ Pd _____

8.1 Graphing & Writing Linear Functions DAY ONE CYU

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Graphing lines	1, 2	3	4
Writing equations given m & b	5 - 8		
Writing equations given m & (x, y)	9 - 12		
Writing equations given two points			13 - 16
Slope formula	13 - 16		
Slope-intercept form	5 - 8		
Point-slope form	9 - 12	13 - 16	

Graph each linear function.
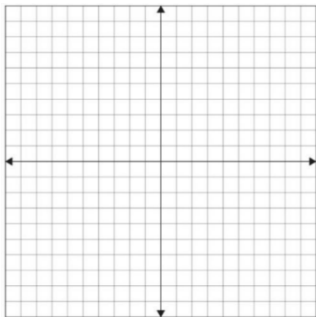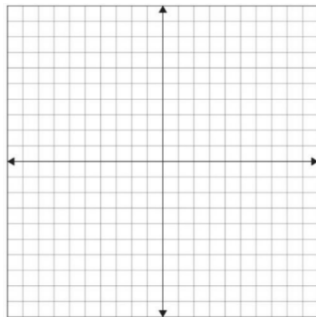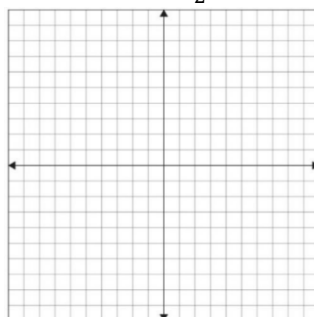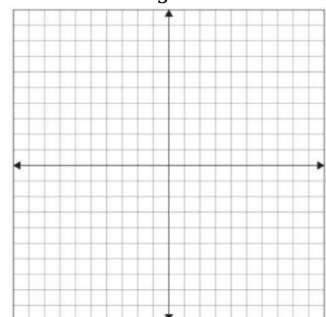
1. f(x) = - 2x   2. f(x) = - 2x + 3   3. $f(x) = \frac{1}{2}x$ 4. $f(x) = \frac{1}{3}x - 2$

Use the function notation to write the equation of the line with the given slope and y-intercept.

5. slope: - 1 & y-intercept: (0, 1)

6. slope: $\frac{1}{2}$ & y-intercept: (0, - 6)

7. slope: - 3 & y-intercept: $\left(0, \frac{3}{4}\right)$

8. slope: $\frac{2}{7}$ & y-intercept: (0, 0)

Find an equation of the line with the given slope and containing the given point. Write the equation using function notation.

9. slope: 3 & through (1, 2)

10. slope: 4 & through (5, 1)

11. slope: - 2 & through (1, - 3)

12. slope: - 4 & through (2, - 4)

Find an equation of the line passing through the given points. Use function notation to write the equation.

13. (2, 0) & (4, 6)

14. (3, 0) & (7, 8)

15. (- 2, 5) & (- 6, 13)

16. (7, - 4) & (2, 6)

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!	