Name: _____

Date: _____

Period:

3.5 Equations of Lines CYU

🗹 Use when you get it right all by yourself

 ${m {\it S}}$ Use when you did it all by yourself, but made a silly mistake

 \emph{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

 \emph{X} Use when a question was attempted but wrong (get help)

₿Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED	
Graphing slope-intercept form	1, 2, 3	4	5	
Writing slope-intercept form	6, 7, 9	8, 10, 11, 12	13 - 15	
Writing point-slope form	11	12	13 - 15	
Writing standard form		11, 12	13 - 15	
Finding slope from two points	13 - 15			
Writing horizontal & vertical lines	16, 17			
Writing parallel & perpendicular lines		18 - 21	18 - 21	

Use slope-intercept form to graph each equation. Show work to earn full credit.

1. $y = -4x - 1$	2. $y = \frac{1}{4}x - 3$	3. y = - 6x	4. $3x - 4y = 4$	5. $x = \frac{3}{2}y$
Write an equation of	the line with each given	slope and y-intercept.		
6. m = 5 & b = 3	7. m = 2 & $b = \frac{3}{4}$	8. m = 0 & b = - 8	9. m = $-\frac{4}{5}$ & b = 0	10. m= undefined & b= 2

Find an equation of each line with the given slope that passes through the given point. Write the equation in all three forms.

11. m = 6 & (2, 2)

point-slope form: ______ slope-intercept form: ______ standard form: ______

12.
$$m = -\frac{1}{2} \& (-3, 0)$$

point-slope form:	
slope-intercept form:	
standard form:	

 Find an equation of the line passing through each pair of points. Write the equation in standard form.

 13. (3, 2) & (5, 6)
 14. (6, 2) & (8, 8)

 15. (-4, 0) & (6, -1)

Write an equation of each line. 16. vertical through (0, 2)	17. horizontal through (1, 4)
18. parallel to y = 5, through (1, 2)	19. perpendicular to x = - 3 through (- 2, 5)

20. parallel to x = 0, through (- 5, 0)

21. perpendicular to y = -4 through (0, -3)

