Algebra 1	Parallel and Perpendicular Worksheet	Name				
Write in point-slope form the equation of the line that is parallel to the given line and passes through the given point. Your final answer should be in slope-intercept form.						
1. $y = x + 5$, (-1, -1)	2. $y = -3x + 1$, (2, 4)	3. $y = \frac{1}{4}x - 6$, (3, 3)				
m =	m =	m =				
point	point	point				
point-slope:	_ point-slope:	point-slope:				
final:	final:	final:				
4. $y = 2x - 11$, (3, 4)	5. $y = \frac{1}{2}x$, (8, -10)	6. $y = \frac{1}{3}x + 4$, (-4, -4)				
m =	m =	m =				
point	point	point				
point-slope:	_ point-slope:	point-slope:				
final:	final:	final:				
Write in slope-intercept form	the equation of the line that is parallel to the line i	in the graph and passes through				
7.	m = point					
-1 $(0, -1)$	point-slope:					

_____ (graph this equation) final:__

Write in slope-intercept form the equation of the line that is parallel to the line in the graph and passes through the given point.



final:	final:
(graph this equation)	(graph this equation)

- **10.** What is the slope-intercept form of the equation of the line parallel to the line in the graph that passes through the point (-1, 1)? After completing the work, circle your final answer and graph it on the grid.
 - **A.** y = 2x 3 **B.** y - 3 = 2(x - 1) **C.** y = -2x + 3**D.** y = 2x + 3



Use point-slope form to write an equation in slope-intercept form of the line that is perpendicular to the given line and passes through the given point.

11. $y = 3x - 1$, (1, -3)	12. $y = -\frac{1}{2}x + 4$, (8, 5)	13. $y = x + 2$, (3, 0)	
m =	m =	m =	_
point	point	point	-
point-slope:	point-slope:	point-slope:	

final:___

14. $y = \frac{7}{8}x$, (0, 3)	15. $y = -\frac{2}{3}x + $	4, (-4, 6) 16.	<i>y</i> = -2 <i>x</i> + 8, (-3, 1)			
m =	m =		m =			
point	point		point			
point-slope:	point-slope:	poin	t-slope:			
final:	final:	final				
Write in slope-intercept form the equation of the line that is perpendicular to the line in the graph and passes through the given point.						
17.	m = 12	8.	m =			
y = x	point	3	point			
1 3 x	point-slope:	y = 2x + 2 (1, 1)	point-slope:			



3)

(graph this equation)