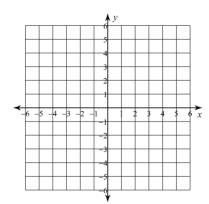
3.5.D1 - POINT-SLOPE FORM OF LINEAR EQUATIONS

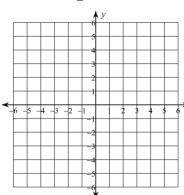
Past due on: Period:

Graph the line described by each equation.

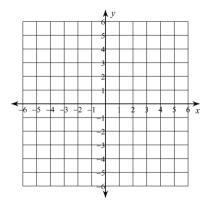
1.
$$y - 1 = -(x - 3)$$



2.
$$y + 1 = -\frac{1}{2}(x + 4)$$

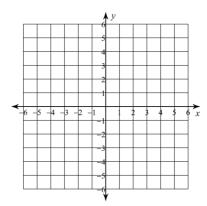


3.
$$y + 2 = \frac{3}{5}(x - 1)$$

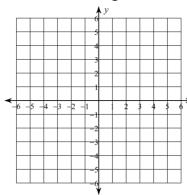


Graph the line described. Then write the equation of a line that passes through the given point and has the given slope. Then write the equation in slope-intercept form.

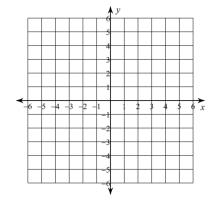
4.
$$(1,5)$$
; $m = -4$



5.
$$(-2, -6)$$
; $m = \frac{1}{5}$

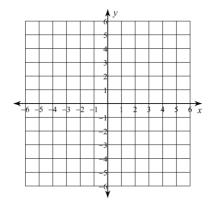


6.
$$(1,1)$$
; $m=2$

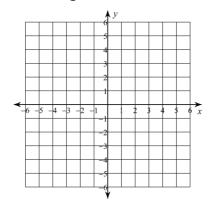


Graph the line described. Then write the equation in slope-intercept form.

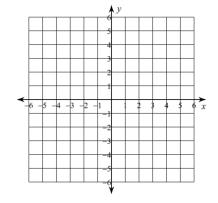
7.
$$m = \frac{3}{4}$$
; y int: -4



8.
$$m = -\frac{2}{3}$$
; y int: 5



9.
$$m = -3$$
; y int: 2



Identify the independent and dependent quantities (including units) in each problem situation. Assign a variable to each quantity. Then write a function to represent the problem situation. *Refer to the 2.1* example "Identifying Dependent & Independent Quantities and Writing an Expression" in the Chapter 2 Summary.

10.	Helen is in a bicycle race. She has already biked 10 miles and is now biking at a rate of 18 miles per hour. Her distance is a function of time.	
	Independent quantity:	Variable:
	Dependent quantity:	Variable:
	Function:	
11.	Paulina's health club has an enrollment fee of \$175 and costs \$35 per month. The total cost is a function of the number of membership months.	
	Independent quantity:	Variable:
	Dependent quantity:	Variable:
	Function:	
12.	To rent a van, a moving company charges \$30 plus \$0.50 per mile. The cost is a function of the number of miles driven.	
	Independent quantity:	Variable:
	Dependent quantity:	Variable:
	Function:	
13.	A caterer charges a \$200 fee plus \$18 per person served. The cost is a function of the number of guests.	
	Independent quantity:	Variable:
	Dependent quantity:	Variable:
	Function:	
14.	A closet organizer charges a \$100 initial consultation fee plus \$30 per hour. The cost is a function of the number of hours worked.	
	Independent quantity:	Variable:
	Dependent quantity:	Variable:
	Function:	
15.	Pat's Pizza charges \$10.50 for a large cheese pizza plus \$0.75 for each additional topping. The total cost is a function of the number of additional toppings.	
	Independent quantity:	Variable:
	Dependent quantity:	Variable:
	Function:	