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### 3.5.DI - PO:NTT-SLOPE FORM OF LINEAR EQUATIONS

Past due on: $\qquad$ Period: $\qquad$
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 $\qquad$ Variable: $\qquad$
Dependent quantity: $\qquad$ Variable: $\qquad$
Function: $\qquad$
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: $\qquad$ Variable: $\qquad$
Dependent quantity: $\qquad$ Variable: $\qquad$
Function: $\qquad$
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: $\qquad$ Variable: $\qquad$
Dependent quantity: $\qquad$ Variable: $\qquad$
Function: $\qquad$
13. A caterer charges a $\$ 200$ fee plus $\$ 18$ per person served. The cost is a function of the number of guests.
Independent quantity: $\qquad$ Variable: $\qquad$
Dependent quantity: $\qquad$ Variable: $\qquad$
Function: $\qquad$
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: $\qquad$ Variable: $\qquad$
Dependent quantity: $\qquad$ Variable: $\qquad$
Function: $\qquad$
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: $\qquad$ Variable: $\qquad$
Dependent quantity: $\qquad$ Variable: $\qquad$
Function: $\qquad$

