Name Date Class Worksheet 3.R: Other Forms of Linearity Review Chapter 3 rning Goal: 1 can write an equation in point-slope form.	
Slope Intercept:	
2. Write an equation in point-slope form and slope intercept form for the line that passes through $(1, -1)$, and $(2, 0)$	2. Point-Slope:
	Slope Intercept:
3. Write an equation in point-slope form and slope intercept form for the line that passes through $(6, -6)$, slope of 2	3. Point-Slope:
	Slope Intercept:
4. Write an equation in point-slope form and	
slope intercept form for the line that passes through $(-5,9)$ and $(1,3)$	4. Point-Slope:
	Slope Intercept:
5. Write an equation in point-slope form and	
slope intercept form for the line that passes through (0,1) and (2,5)	5. Point-Slope:
	Slope Intercept:

6. State the *x*- and *y*-intercepts of the function:

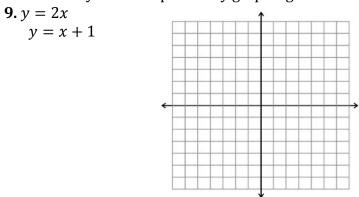
$$-\frac{1}{4}x - \frac{1}{3}y = 12$$

7. State the *x*- and *y*-intercepts of the function: x + y = 1

8. State the *x*- and *y*-intercepts of the function: 6x + 2y = -18

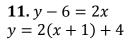
Learning Goal: 1 can solve a system of equations by graphing. (8.EE.8a, b, c)

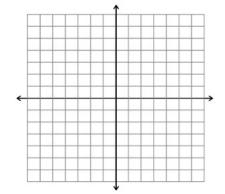
Solve each system of equation by graphing.



10.
$$y = x + 3$$

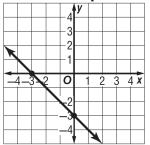
 $y = -2x - 3$





Learning Goal: I can write a linear equation from a table, graph, and a real-world situation. (8.EE.8c)

12. Write the point-slope form of an equation for the line graphed.



13. The table shows the temperature at certain hours. Assuming the temperature change is linear, write an equation in point-slope form to represent the temperature y at hour x.

Hour	Temperature (°F)
1	81
2	87
3	93

14. After 2 hours, a car travels 65 miles. After 2.25 miles in the same trip, the car travels 71.25 miles. Write an equation in point-slope form to represent the distance y of the car after x hours.

Learning Goal: I can write a system of linear equations.

15. Two small pitchers and one large pitcher can hold 9 cups of water. One large pitcher minus one small pitcher constitutes 3 cups of water. How many cups of water can each pitcher hold? Write a system of equations to represent the situation.