1. Find the equation of the line parallel to 7x-6y=13 that passes through the point (-42, -51). Express your answer in Slope-Intercept Form. Show your work!

2. Find the equation of the line perpendicular to 3x+8y=-15 that passes through (-9, 14). Express your answer in Point-Slope Form. Show your work!

3. Find the equation of the line parallel to the line y = 6 that passes through (-5, 2).

4. Find the equation of the line perpendicular to the line y = -1 that passes though (7, 3).

5.	Determine whether each of the relations below is a function and then, using proper set notation, state its domain and range.				
(A)	$\{(1, 7), (2, 5), (4, 5), (6, 6)\}$	$(B) \{ (  ,  ), (  ,  ), (  ,  ) \}$	(C) {(2, 8), (3, 10), (2, 5), (6, 17)}		
Domain:		Domain:	Domain:		
Range:		Range:	Range:		
6.	6. y varies directly as x. If y is 30 when x is 0.6,				
(A)	find the constant of direct variation, <i>k</i> . Show some work!	(B) write an equation of direct variation in the form $y = kx$ .	(C) find y when x is 20. Show your work!		
7.	7. Show your work as you find the slope of the line that passes through the following points:				
(A) (8, -13) and (2, -6)		(B) (9, 6) and (-5, 3)			
8.	8. Determine whether each statement is true or false. Write the <u>entire word</u> , not simply "T" or "F".				
When read from left to right, a line with a positive slope will be decreasing.					
The slope of any horizontal line is zero.					
	It is impossible for the slope of a line to be undefined.				
	When read from left to right, the line $y = \frac{1}{3}x$ increases more quickly than the line $y = \frac{1}{2}x$ .				

5.	Match each term with its correct formula.	
	Slope-Intercept Form	(A) $y = b$
	Vertical Line	(B) $y - y_0 = m(x - x_0)$
	Standard Form	(C) $x = a$
	Point-Slope Form	(D) $y = mx + b$
	Horizontal Line	(E) $Ax + By = C$
6.	. Write the equation of the line (in Slope-Intercept Form) that passes through the points ( (16, 4). Show your work!	
7.	Write the equation of the line (in Point-Slope Form) that passes through the points (-4, -3) at (-8, -9). Show your work!	
8.	Find the $x$ and $y$ intercepts of the line $-3x$ answer as either a single number or an order	x + 5y = -60. Show your work! You can express your final dered pair.
	v intercent:	v intercent:
	x – intercept:	y – intercept:

Convert the equation y-8=-3(x+5) from Point-Slope Form to Slope-Intercept Form. Show your work!

10. Using the rectangular coordinate system below, graph each of the linear equations. Write each equation beside its corresponding graph.

$$y = -5x + 7$$

$$2x - 4y = 16$$

$$y = -5$$

$$2x-4y=16$$
  $y=-5$   $y-5=\frac{1}{6}(x+4)$   $x=8$ 

$$x = 8$$

