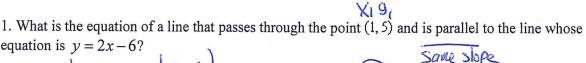
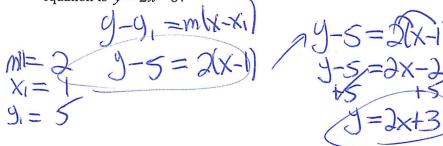
Name	Schla	nsky
Mr. Sc	hlansky	

Date	
Geometry	

Linear Equations Through a Point





2. What is the equation of a line that passes through the point (-3, -11) and is perpendicular to the line whose equation is $y = -\frac{1}{2}x - 4$?

whose equation is
$$y = -\frac{1}{2}x - 4$$
?
 $m \downarrow = 2$
 $x_1 = -3$
 $y_1 = -11$
 $y = 2x + 6$
 $y_2 = 2x + 6$
 $y_3 = -11$
 $y_4 = 2x + 6$
 $y_5 = 2x - 5$

3. What is the equation of a line that passes through the point (-2, 5) and is parallel to the line whose equation is y = -2x + 4?

$$m|| = -2$$
 $y-y_1 = m(x-x_1)$ $y-5 = -2(x_1)$
 $x_1 = -2$ $y-5 = -2(x_1)$ $y-5 = -2(x_1)$
 $y_1 = 5$ $y = -2(x_1)$

4. What is the equation of a line that passes through the point (5,4) and is perpendicular to the line whose equation is $y = -\frac{1}{3}x$?

$$mL = 3 \quad y-y_1=m(x-x_1) \quad y-y=3(x-5)$$

$$x_1 = 5 \quad y-y=3(x-5) \quad y-y=3x-15$$

$$y_1 = 4 \quad y=3x-11$$

		X 9,
	5. What is the equation of a line that pass whose equation is $y + x \neq 5$?	es through the point $(6, -5)$ and is perpendicular to the line
	-X-X	negative reciporal slopes
m 1 -	J=-X+>	
V.	1. 9-9=m(x-X)	ay45=11x-41
A) =	-5 A+5= 1(x-0)	9+5=x-6
J1 =	7 7 11/201	75
		y=x-11
	6. Find an equation of the line passing thr	rough the point (5, 4) and parallel to the line whose equation is
~	2x + y = 3.	Same star
í	J=-2x+3	
m11=-3		1-4=-21X-51
X1-5	Jag Sirk all	-4=-2×+10
1 /	9-4=-2(X-3)	14 2 2 11
Ji=4	7 Find an aquation of the line necessing the	$y = -2 \times 14$ ough the point $(6,3)$ and perpendicular to the line whose
	equation is $2y + 3x = 6$.	negative reciprocal shoes
1 2	$-3\times$ $-3\times$	TRIGATIR FACIFICATE SOI S
MT=3	Ay= ->X+0	au-5=3/1)
X1 = 6	J=3×+3/	VISC 2 11
9,=5	M () -m/() ()	3x-4
	9-9-1-MX-N1	N-2 1
	8 Write an equation of the line that passe	s through the point $(6,-5)$ and is parallel to the line whose
	equation is $2x - 3y = 11$.	The state of the s
	2x -2x	Same slope
	-34=-2X+11	
	3 -3	
11	9=3x-3	U+5-2x-4
m1=3	m	3/-5
$x_1 = b$	N What was	
4 -5	J-9=1210-411/	$y = \frac{2}{3}x - 9$
J1= 3	X1<=3(1-11)	8 3"
	373	