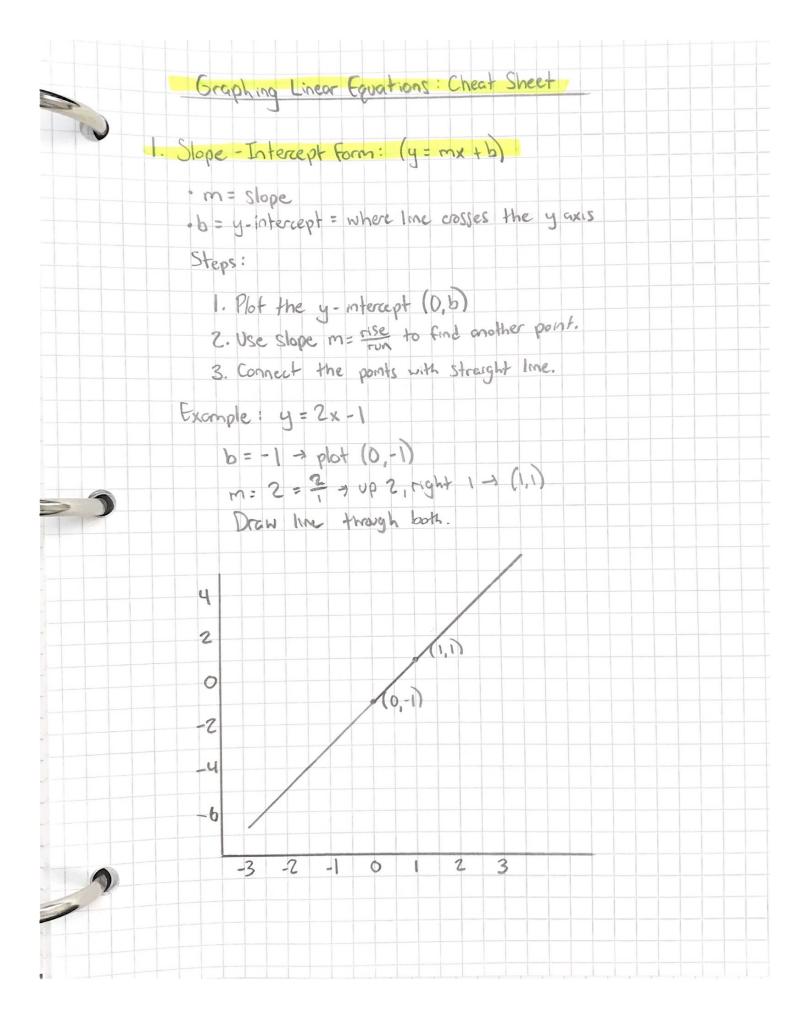
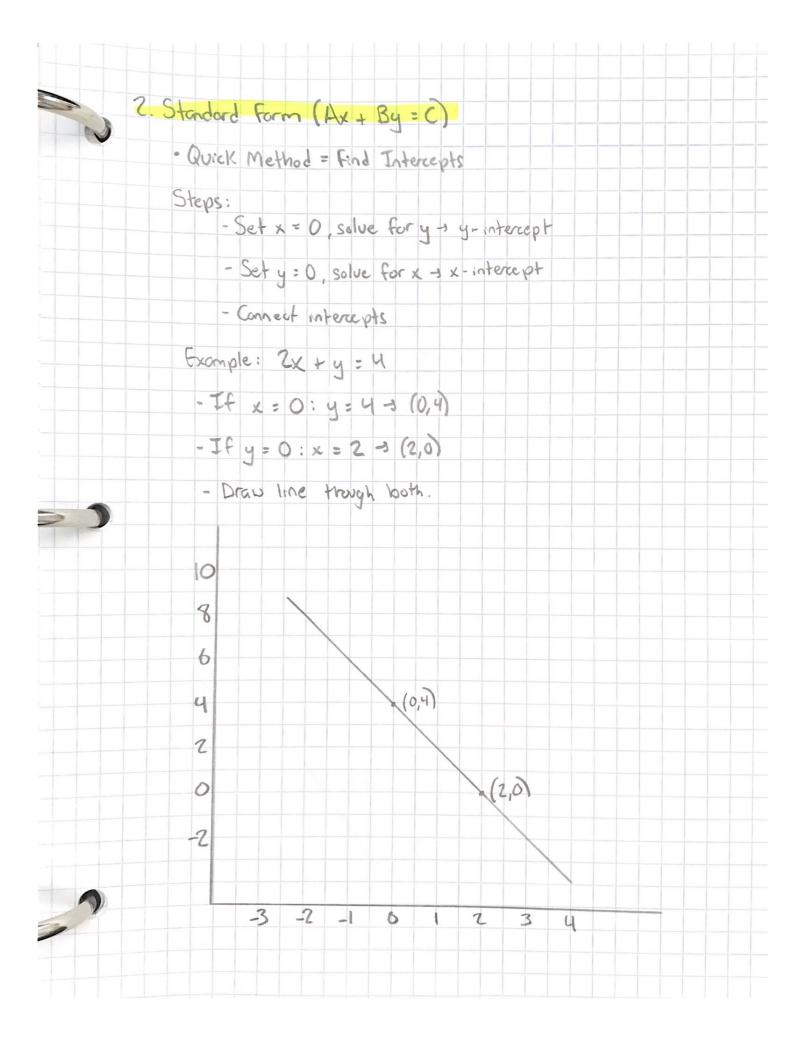
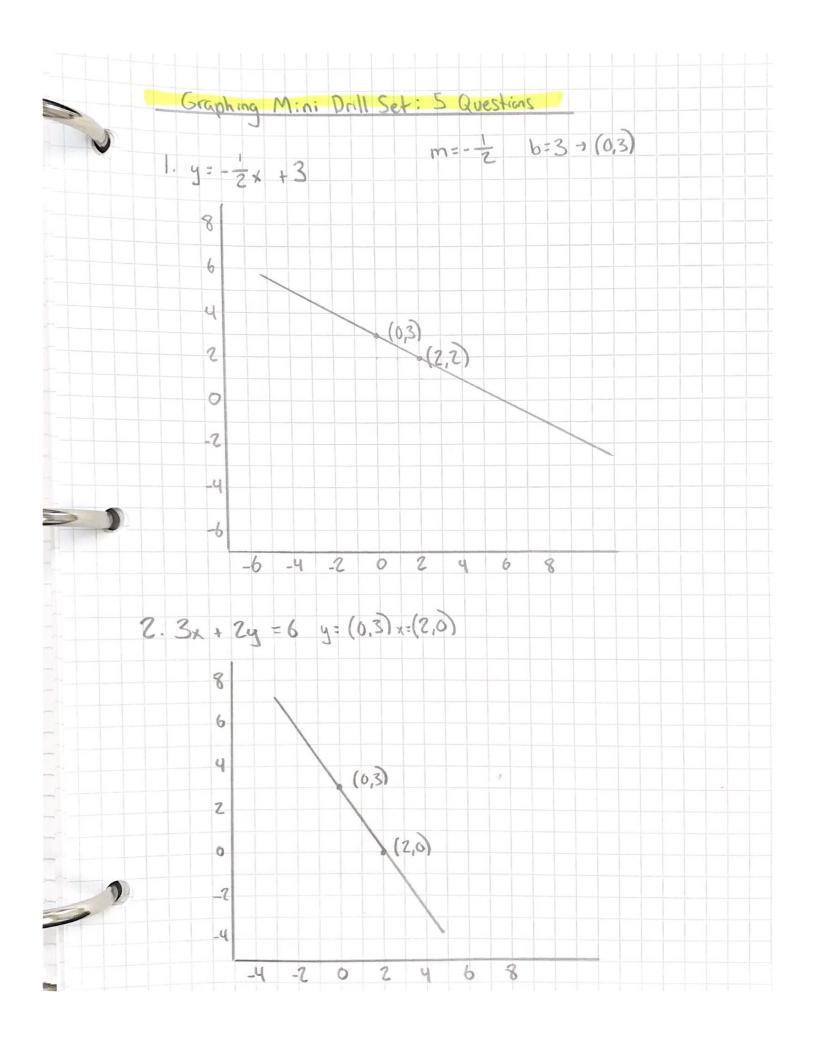
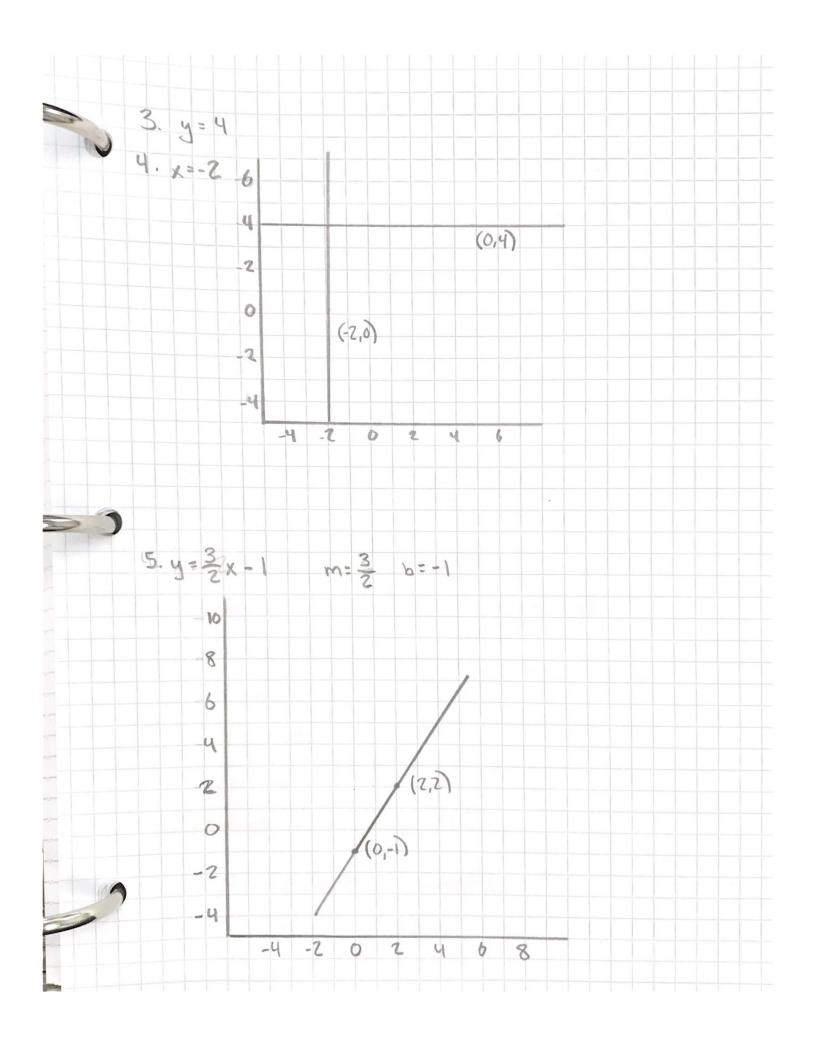
Quiz 2: Parallel and Perpendicular Lines Part A: Parallel 1. Line: y= = x -1. Find the parallel line though (3,4) 4-4== (x-3) Slope: 2 4-4-2x-2+4 4== x+2 2. Line: 6x-Zy = 4. Find the parallel line though (-2,5) 4-5-3(x-(-2) 6x-24=4 y-5=3(x+2) - 2y = -6x + 4 y-5=3x+6+5 4 = 3x - 2 4=3x+11 3. y= - 3 x + 2 Find perpendicular Ine Hough (0,-1) $m_1 = \frac{1}{-3} = \frac{4}{3}$ Slope = - 3 -1 -3 - 4 y-(-1) = 4 (x-0) $y + 1 = \frac{4}{3} \times y = \frac{4}{3} \times -1$

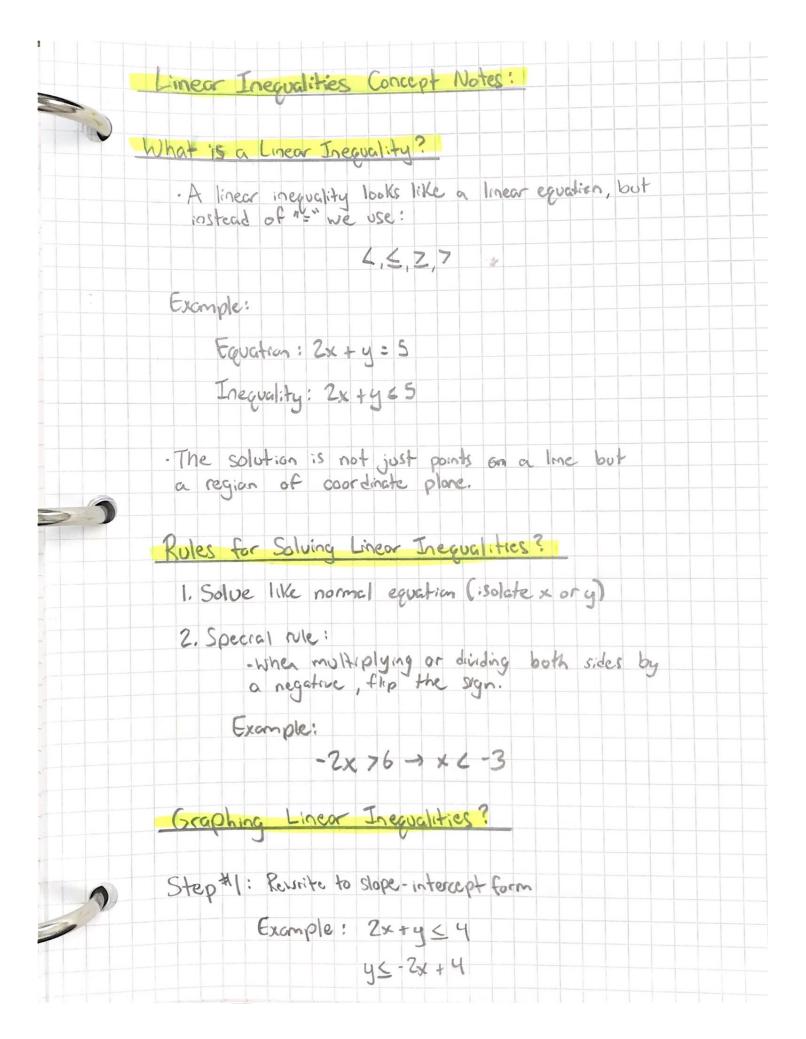
	. Line ?								e the	sigh ((0,-4)	
	2	x + 59	= 10		Slo	pe=	2 5					
		5y =	-2x+	10		mı:	-1	- 3	5			
		4:	2 x +	2			5					
		J	3			UI.	- 1-4) = 5	- (x -	0)		
								1= 5				
							U	1= = =	K - 4			
	5.											
	6.											
19												
												-











Step 12: Graph Boundary Line . If inequality is < or > solid line. (points on line included) . If inequality is & or 7 dashed line. (points on line not included). Step 43: Shade the correct half-plane · Choose a test point (often (0,0), if not on the line). · Plug into inequality: - If true + shade that side - If false + shade opposite side. Example: 472x-1 Step 1: Already in slope intercept Step 2: Graph boundary I'me y = 2x - 1 with dashed Step 3: Test point (0,0): 07-1 I True & Shade the side containing (0,0) Systems of Linear Inqualities: - A system = 2 or more inequalities . Solution = region of the plane that schiffes all iequalities · The overlapping shaded orea is the feasible solution set

