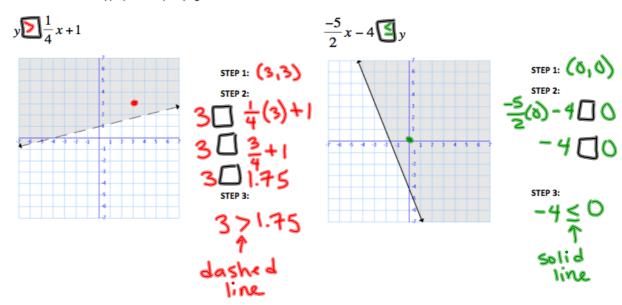
## **Entrance Ticket**

Learning Target: I can graph linear inequalities in slope intercept form.

STEP 1: Pick a point in the shaded region

STEP 2: Plug that point into the inequality and simplify

STEP 3: Determine the appropriate inequality sign

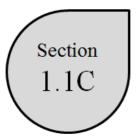


Learning Target: I can graph linear inequalities in standard form and slope-intercept form.

## 1.1C Graphing Linear Inequalities in

page 9

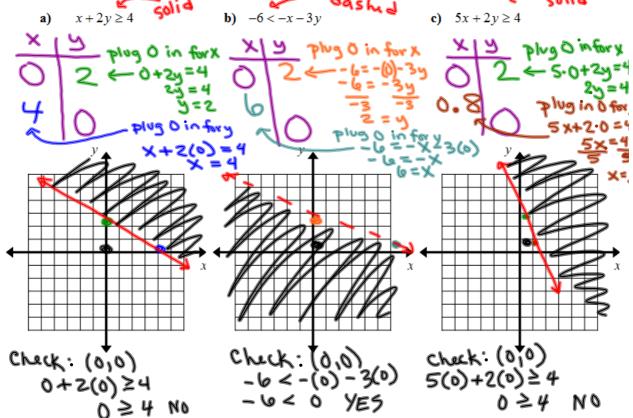
## Standard Form and Slope-Intercept Form



There are a couple of options when plotting inequalities that have related equations in standard form (ax + by = c). One method is to identify the x- and y-intercepts to graph the boundary line or, another method would be to solve the equation for y, rewriting the equation into slope-intercept form. Sometimes, the related equation for the inequality may be in the slope-intercept form (y = mx + b) to start and the y-intercept and slope can then be used to plot points to graph the boundary line. Once we graph the boundary line, determine which region to shade by testing some ordered pairs within each half-plane or, in many cases, by looking at the inequality.

\*STANDARD FORMpage 13

8) Graph the following inequalities.



## **HOMEWORK:**

UNIT 1 Part A: 3-Tri Intermediate	Algebra	
	Name:	Period:

Use this guide to help you evaluate where you are at in this chapter, and identify areas that you need extra help in.

⊕ Proficient (you are awesome at this) ⊕=Middle (you need some improvement) ⊕=Not Proficient (HELP!)

Intermediate Algebra Unit 1 : Linear Programming						
Date Covered	LT#	Learning Target (LT) (What you should know)	Practice Problems	Number of Test Questions/Points	Self-Evaluation (Do you know it?)	
	1.1A	I Can Demonstrate Understanding of How to Represent a Region on a Graph with an Inequality	1.1 A 1-8 (P-1)	# of Questions = Points =	6 G G	
	1.1B	I Can Demonstrate Understanding of How to Represent a Region on a Graph with an Inequality	1.1B 1-6 (P-5) 1.1B 7-12 (P-6)	# of Questions = Points =	6 G G	
9/22	1.1C	I Can Demonstrate Understanding of How to Represent a Region on a Graph with an Inequality	1.1C 1-8 (P-9) 1.1C 9-16 (P-11)	# of Questions = Points =	8 B 8	

CORRECTIONS

TO HW DIRECTIONS...



#9 - 12: Graph each inequality.

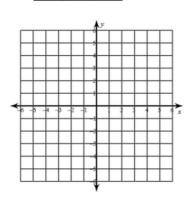
9)  $2x + 3y \ge 12$ 

Tables can be used to record x- and y-intercepts...

x	0	
у		

**Easier if drawn like THIS:** 





#13 – 16: For each inequality and graph, pick a point and use it to determine which half-plane should be shaded, and then shade the correct half-plane.

13) -2x + 5y 15

Directions don't make sense...

INSTEAD: Test a point to choose the correct inequality symbol!

