A Day at the Food Court

You and your friends, Mercedes, Jose and Aasim, have been hanging out at the mall all day. The group decides they want to get something to eat so you all move to the food court in the mall. No one wants to eat at the same places and all decide to get something to eat at one shop and get dessert at a different shop. You want to know where you will meet each friend when moving from one shop to the shop.

* Mercedes gets a slice of pizza at Pizza Parlor at (0, 21) and then goes to Smoothie Shop at (-9, -10) for a smoothie.
* Jose gets a sandwich from Yellow Submarine at (2, -10) and then goes to get a candy bar from Snack Shack at (8, 14).
* Aasim gets a fish sandwich from Fish & Chips at (-17, 3) and then goes to get a chocolate chip cookie from Cookie Heaven at (11, 10).
1. Write an equation of the line of the path each of your friends walked in slope intercept form.
* Mercedes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Jose \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Aasim \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
1. Graph each of the shops your friends stopped at on a coordinate plane and label the each coordinate with the name of the shop.
2. You decide you want a taco from Taco Hut and then want to get an ice cream cone from Dream Cream. You travel along the path of $2x+3y=30$.
	1. Graph the line on your coordinate plane.
	2. Choose a coordinate for Taco Hut on your path and label on the coordinate plane.
	3. Choose a coordinate for Dream Cream on your path and label on the coordinate plane.
3. Find the point where you will meet each of your friends when walking from one shop to the other. Show your work algebraically.
4. Graph each of the lines on your coordinate plane using a different color for each line. Be sure to label the lines.
5. Organize your information on a poster board or using web 2.0 tools (powerpoint, prezi, etc). Be sure include your graph as well as your work on your final project. Be creative in how you display the information.