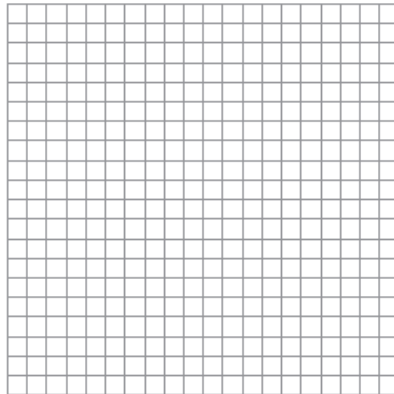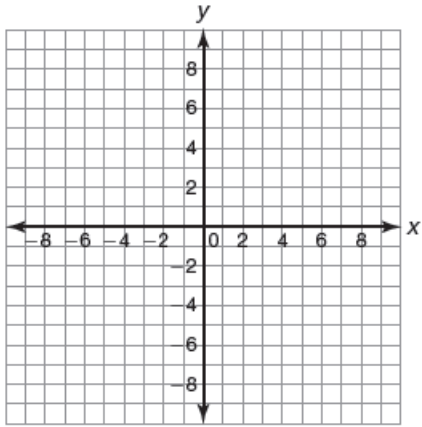| Assignment 7.1_1	Period (circle one): 5 7	Date:	Name:

The Playoffs
Graphing Inequalities

1. Jeremy is working at two jobs to save money for his college education. He makes $8 per hour working for his uncle at Pizza Pie busing tables and $10 per hour tutoring peers after school in math. His goal is to make $160 per week.

   a. If Jeremy works 8 hours at Pizza Pie and tutors 11 hours during the week, does he reach his goal?

   b. Write an expression to represent the total amount of money Jeremy makes in a week from working both jobs. Let x represent the number of hours he works at Pizza Pie and y represent the number of hours he tutors.

   c. After researching the costs of colleges, Jeremy decides he needs to make more than $160 each week. Write an inequality in two variables to represent the amount of money Jeremy needs to make.

   d. Graph the inequality from part (c).

Graph each linear inequlity

$y \geq \frac{1}{2}x - 3$

$y < 4x + 2$