Unit 1: Functions, Inequalities, and Systems

- 1.A food truck sells tacos for \$3 and drinks for \$2. Write and graph a system of inequalities that shows all the combinations of tacos (x) and drinks (y) the truck can sell if it can serve at most 80 customers and has no more than \$200 worth of supplies.
 - Which point on the graph represents the maximum possible revenue?
- 2. Solve the system:

$$2x + 3y = 12$$
$$x - y = 1$$

Interpret your solution as a break-even point in a business model.