## General Algebra II Class Worksheet \#2 Unit 5

Solve the following linear programming problem. Show all of your work neatly organized. A small firm manufactures bracelets and necklaces. The total number of necklaces and bracelets it can manufacture per day is 24. Each bracelet requires $\mathbf{1}$ hour of labor to make, and each necklace requires $\mathbf{5}$ hours of labor to make. The total number of hours of labor available per day is 16 . The profit on each bracelet is $\$ 4$, and the profit on each necklace is \$3. How many bracelets and how many necklaces should the company make per day in order to maximize its profits.


