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 1 hour of labor to make, and each necklace requires .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.

