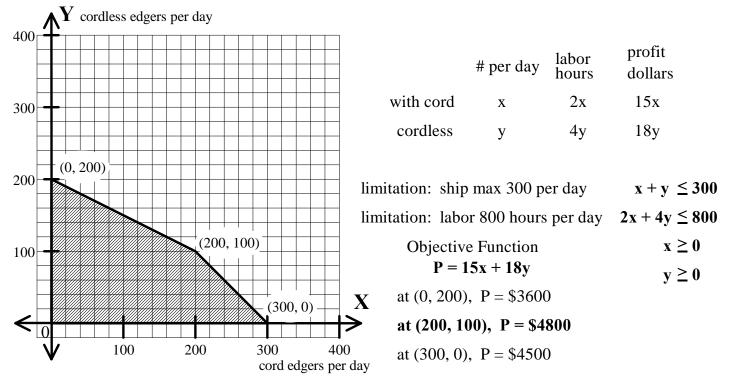
Algebra II Worksheet #5 Unit 4 selected solutions

Solve the following linear programming problem. Show all of your work neatly organized.

3. A company manufactures two types of lawn edgers, one of which is cordless. The 'cord' edger requires a total of two hours of labor to make. The 'cordless' edger requires a total of four hours of labor to make. The company has a total of 800 hours of labor available for manufacturing per day. The packing department can pack and ship a total of 300 edgers per day. If the profit on each 'cord' edger is \$15, and the profit on each 'cordless' edger is \$18, then how many edgers of each type should the produce per day in order to maximize their profit?



They should make 200 cord edgers and 100 cordless edgers per day.