Math 105-20 Summer Term II
Quiz 6: 6/22 Name: _____

To receive full credit for this 25 point quiz, you must show ALL work. You have 10 min to complete this quiz. No quizzes will be accepted after that time.

1. (*25 points*) Given the following linear program:
Let x=the number of chairs, y=number of tables made on Monday.
Maximize: $P = \$60x + \$50y$
Subject to:
$3x \leq 1500$ yards of fabric
$2x + 4y \leq 3000$ board-feet of lumber
$30x + 15y \leq 18,000$ minutes workers' time
$x \geq 0$, $y \geq 0$
Is it feasible to make 30 chairs and 10 tables? If so, what is the profit?