Math 30210 --- Intro to Operations Research

Quiz 7 --- Wednesday October 31, 2007

Name:_____

Instructions: This is a closed-book quiz. Please do not use notes.

Count Dracula needs 70 grams of iron and 42 grams of zinc weekly. A pint of Transylvanian blood costs $10 and contains 2 grams of iron and 1 gram of zinc. A pint of imported German blood contains 3 grams of iron and 2 grams of zinc, but costs $20. The Count wants to satisfy his need for iron and zinc at minimum cost.

1) Formulate this problem as a linear program.

2) Write down the dual linear program.