

## Module 8: Linear Programming answers

### Summer 2011, Exam 1

270) Find the two constraints given below, which pertain to the feasible region of the maximization problem:  $20x_1 + 30x_2 \leq 120$        $100x_1 + 50x_2 \leq 1000$

- A.  $x_1 \leq 6$ ,  $x_2 \leq 4$
- B.  $x_1 \leq 12$ ,  $x_2 \leq 8$
- C.  $x_1 \leq 4$ ,  $x_2 \leq 2$
- D.  $x_1 \leq 6$ ,  $x_2 \leq 4$
- E.  $x_1 \leq 12$ ,  $x_2 \leq 8$

Answer: B

271) Which combination of  $x_1$  and  $x_2$  will yield the optimum for this problem?

Maximize  $50x_1 + 20x_2$ , subject to  $20x_1 + 30x_2 \leq 120$  and  $100x_1 + 50x_2 \leq 1000$

- A.  $x_1 = 12$ ,  $x_2 = 8$
- B.  $x_1 = 6$ ,  $x_2 = 4$
- C.  $x_1 = 10$ ,  $x_2 = 10$
- D.  $x_1 = 4$ ,  $x_2 = 2$
- E. None of the above

Answer: B

272) If shadow prices for two values reflect which of the following is a maximization problem?

- A. the marginal gain to the objective function by substituting one unit of a resource
- B. the shadow price that would be paid to obtain additional resources
- C. the decrease in profit that would accompany one added unit of a scarce resource
- D. the reduction in cost that would accompany an one unit decrease in the resource
- E. None of the above

Answer: B

273) The objective of a linear programming problem is to maximize  $Z = 500x_1 + 1200x_2$ , subject to  $10x_1 + 20x_2 \leq 1000$ ,  $20x_1 + 40x_2 \leq 800$ , and  $10x_1 + 10x_2 \leq 500$ . What are the constraints on the first scarce resource? What is the optimal product mix for this problem?

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**L Cohen**



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