**BA 353: HW 3 Answers**

**HW 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 2) | x | y |  |  |  |
|  | 0 | 10 |  |  |  |
| Max | 1 | 10 | 100 |  |  |
|  | 4 | 3 | 30 | 36 | < |
|  | 2 | 4 | 40 | 40 | < |
|  |  | 1 | 10 | 3 | > |

6) Min L + 2C

L + C ≥ 40

2L + 4C ≥ 60

L ≤ 15

L = 15, C = 25, cost = $0.65 – solved with Solver.

8) Max $90A + $70B

125A + 100B ≤ 25000

20A + 30B ≤ 6000

Make 200 of A, none of B, profit = $18,000 – solved with Solver.

10) Max $1200A + $1800B

20A + 25B = 160\*5 = 800

A ≥ 10, B ≥ 15.

A = 10, B = 24, $55,200.

**ICE 7**

1) 24 days, ADH, slack times are 0, 1, 5, 0, 2, 1, 3, 0, 1, 1

2) 25 days, BGJ, slack times are 2, 0, 3, 4, 2, 4, 0, 3, 4, 0