

Mistern 3 Solutions

1. The value of game is 0.

An optimal strategy for Player I is:

$(0.5, 0.5, 0, 0)^T$

An optimal strategy for Player II is:

$(0, 0.5, 0.5, 0)$

2. The value of game is 2.

An optimal strategy for Player I is:

$(0.5, 0.5, 0)$

An optimal strategy for Player II is:

$(0, 0, 1, 0, 0)$

3. $x = 2.5$ min = 17. The x is the mean of 1, 1, 2, 6

4. Any $x \mid 1 \leq x \leq 2$. This is the medians of 1, 1, 2, 6

5. $x = 8/3$ min = $10/3$

Grading Scales

Problem 4

If approximated:

2.5 12/15

3 10/15

Problem 5

If no work shown:

2.5 2/15

3.5 6/15

If value is approximated:

2.625 14/15

2.5 13/15

3 12/15

2 or 3 11/15

2 10/15

3.4 9/15

$1 \leq x \leq 2$ 8/15