

MATH 125 - Reading Assignment 6 - Section 9.3 - Spring 2008

Tell me what thy Lordly name is on the night's Plutonian shore.

Quoth the student, "_____"

1. **True** or **False**: In many two-player games, one player's loss is exactly equal to the other player's gain.
2. A _____ - _____ is represented by a matrix where the pair of payoffs for each matrix entry sums to 0.
3. Write the following payoff matrix in a more abbreviated form, following the examples in Tables 9.15 and 9.16 on p. 577.

| | | Column Player | |
|------------|----|---------------|-----------|
| | | C1 | C2 |
| Row Player | R1 | $(3, -3)$ | $(-1, 1)$ |
| | R2 | $(-2, 2)$ | $(5, -5)$ |
| | R3 | $(0, 0)$ | $(1, -1)$ |

| | | Column Player | |
|------------|----|---------------|----|
| | | C1 | C2 |
| Row Player | R1 | | |
| | R2 | | |
| | R3 | | |

4. **True** or **False**: The analysis of the matrices in this section is done completely differently than the analysis done in the previous section.
5. An equilibrium point in a matrix of the type described in this section is sometimes called a _____ because its payoff is the largest for the given column and the smallest for the given row.
6. **True** or **False**: In a matrix of the type described in this section, the matrix may have one, more than one, or no equilibrium points.
7. **True** or **False**: In a matrix of the type described in this section, the equilibrium points must have the same payoff to the Row Player.