

Figure for Methods Exam Questions 2007

| | | | |
|----------|---|-----------|-----------|
| | | Player 2 | |
| | | c | d |
| Player 1 | C | $(x, -x)$ | $(0, 0)$ |
| | D | $(1, 1)$ | $(x, -x)$ |

Questions for this figure repeated here too.

- Draw an extensive form representation of this game.
- What are the Nash equilibria if $x = 0$? (Consider both pure and mixed strategies.)
- What are the pure-strategy Nash equilibria if $x = 2$?
- What are the Nash equilibria if $x = -2$? (Consider both pure and mixed strategies.)
- Characterize the pure-strategy Nash equilibria for all possible values of x between negative infinity and infinity.