5. From the following payoff matrix, where the payoffs (negative values) are the years of possible imprisonment of individuals A and B, determine (a) whether individual A has a dominant strategy, (b) whether individual B has a dominant strategy, (c) the optimal strategy for each individual. (d) Do individuals A and B face a prisoner’s dilemma?

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Individual B |
|  |  | Confess | Don’t Confess |
|  | Confess | (-5,-5) | (-1,-10) |
| Individual A |  |  |  |
|  | Don’t Confess | (-10,-1) | (-2,-2) |