Consider a game in which, simultaneously, player 1 selects a number $x \in [2, 8]$ and player 2 selects a number $y \in [2, 8]$. The payoffs are given by:

$$u_1(x, y) = 2xy - x^2$$

 $u_2(x, y) = 4xy - y^2$.

Calculate the rationalizable strategy profiles for this game.