Thursday, October 1, 2020

10:28 AM

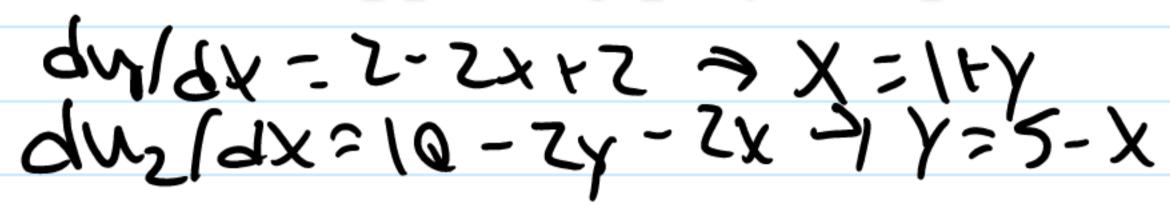
Rassed Salution review

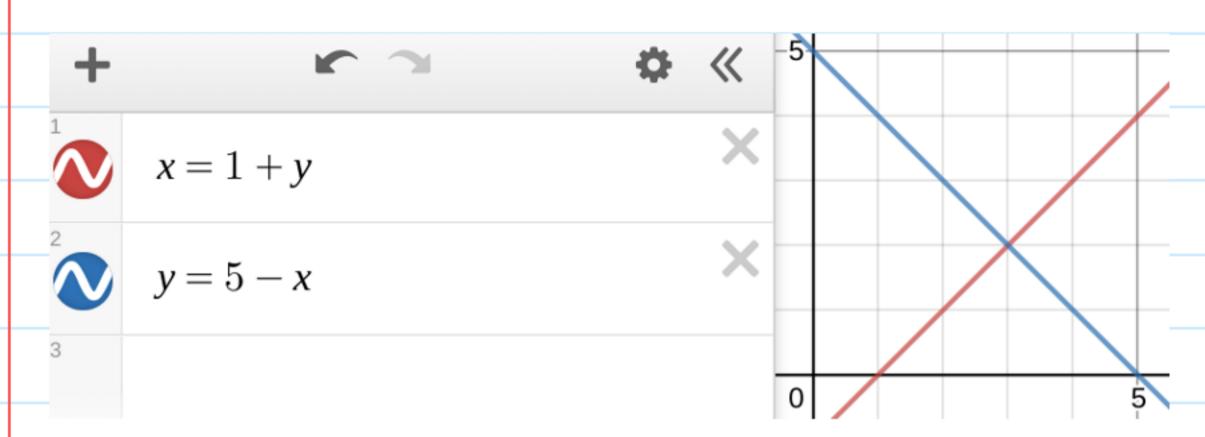
Consider a game in which, simultaneously, player 1 selects any real number x and player 2 selects any real number y. The payoffs are given by:

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

 $u_2(x, y) = 10y - 2xy - y^2$.

(a) Calculate and graph each player's best-response function as a function of the opposing player's pure strategy.





(b) Find and report the Nash equilibria of the game.

$$X = 1 + 5 - X$$

 $X = 6 - X$
 $2X = 6$
 $X = 3$ $\rightarrow Y = 5 - 3 = Z$

(c) Determine the rationalizable strategy profiles for this game.