The pair of coupled ODEs

$$\frac{dx}{dt} = Ax - Bxy$$

$$\frac{dy}{dt} = -Cy + Dxy$$

is referred to as the Lotka-Volterra equation and is supposed to represent
the evolution of the populations of a predator and its prey as a function of time.
(A, B, C, D are positive constants.)

(a) Which of the variables, x or y, represents the predator?
Which represents the prey? What reasons do you have for your choice?

(b) What do the parameters A, B, C, and D represent?
Why do you say so?

(c) Are there values for the populations that would lead to a stable solution
for both groups?