2. A three species population model
A 3x3 model

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Identify the type of population model

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Which of the following scenarios is modeled by the system

$$\begin{aligned} \dot{x} &= x - x^2 - 2xy - xz \\ \dot{y} &= 3y - 2y^2 + xy - 2yz \\ \dot{z} &= z - 2z^2 + xz - 3yz \end{aligned}$$

- Competition of three species.
- Predator-prey with x the predator and y and z the prey in competition with each other.
- Predator-prey with y and z the predators in competition and x the prey.
- Predator-prey with z a predator for y and x and y a predator for x.

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Answer submitted.

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