Section 9.6 Hint

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2. competition: One of the two species is increasing and the other is decreasing simultaneously.
cooperation: Both the species are increasing (decreasing).

4. Notice the minimum and the maximum number of the two spices.

6. Notice the relation between the numbers of the two species. The numbers will be fixed when $t \geq 10$.

8. a. equilibrium solution: $\frac{dA}{dt} = 0, \frac{dL}{dt} = 0$.
c. Notice the equilibrium point and the solutions are colsed curves.

10. a. $L = 0$.
b. equilibrium solution: $\frac{dA}{dt} = 0, \frac{dL}{dt} = 0$.