

As we can see in the figure, the number of A particles changes dramatically between 0 and 50.

If we consider the figure in question 6 and we realise that $k_{3onv2} = 0.005$, we see the huge bifurcation between the two values 0 and 50 of A , fact which explains this figure.

11.

If we change the parameter k_{3onv2} to 0.003, the two stable states A_2 and A_3 disappear, because of the result from question 5.