2.2.1 Graph of $x(t)$ is not accurate for $x < -2$. Obtaining the analytical solution is not detailed enough, so there is a mistake in it.

2.2.8 Stability of point -1 is wrong in second plot.

2.4 Graphical analysis is not needed, because linear stability analysis works.

2.4.3 Not all fixed points are found and considered.

3.1.1 There is no plot for $r = -2$.

3.2.3 Wrong bifurcation diagram.

3.4.6 Bifurcation diagram is not accurate: stable and non-stable fixed points do not differ.

5.1.7 Vector field and solution is not detailed enough.

5.2.3 Eigenvector v_2 is wrong.

5.2.5 Wrong stability and phase portrait.

5.3.4 Not all cases considered.

6.3.1 Full phase portrait is missed.

6.3.3 Missed.

6.4.2 Wrong Jacobi matrix and further solution.