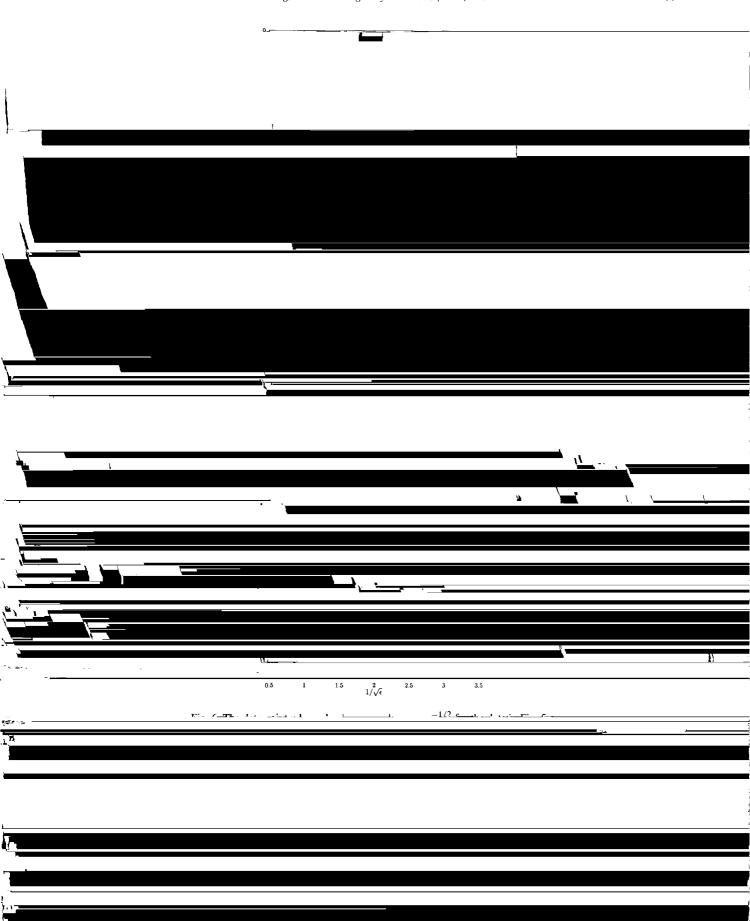


Fig. 3. The relative positions of two curves of double-pulse homoclinic bifurcations and the curve of primary homoclinic bifurcations

			-			
for Eq. (16). The he	orizontal axis is ϵ and the v	vertical one is the	difference betwee	en the α-values fo	or the two curves (α_{dp}) and α_{h} . Two
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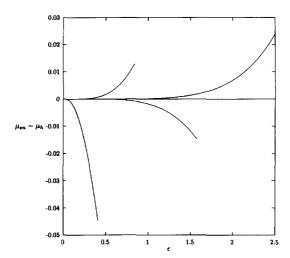
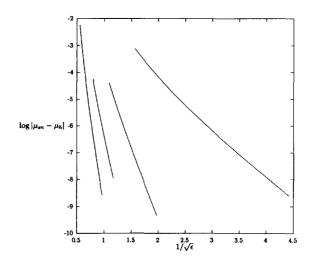


Fig. 7. A plot of the difference in μ-values for four curves of saddle-node bifurcations of periodic orbits and the curve of homoclinic bifurcation of a for evotant (19)



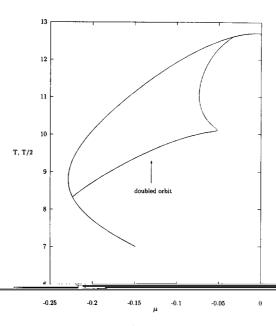


Fig. 9. A plot of period T (of the basic orbit) and half-period $\frac{1}{2}T$ (of the period-doubled orbit) versus α for Eq. (16), showing the bifurcation sequence "period-doubling, saddle-node, reverse period-doubling". The value of ϵ is 0.22346, and γ is 0.5.

5. Conclusion and comments

We did not dicuss path 1 of Fig. 2 in this paper. The bifurcations that occur along here are expected to be of interest because when $\delta=1$, the sum of the eigenvalues of the Jacobian is zero and the flow is then locally "conservative" in some sense. There are expected to be some similarities with the $|\lambda/\nu|=0.5$ case for the saddle-focus, as the flow in this case is also "divergence-free" at the stationary point. This last case is mentioned in [6], but does not seem to

One other granus onen for investigation is the application of the technique discussed in Section 2 to systems