

LANDAU DAMPING FOR TMCI

E. Métral

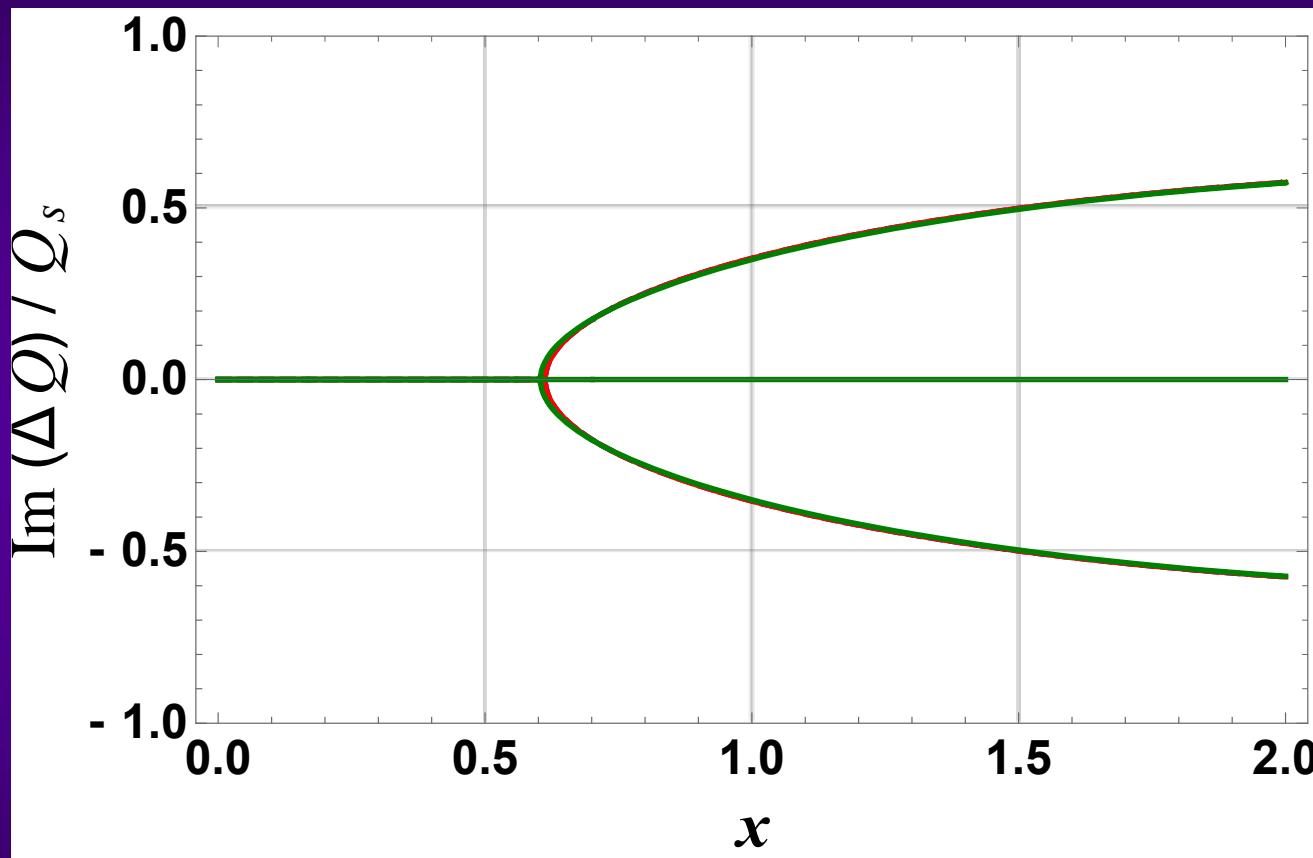
- ◆ Same approach as in

https://indico.cern.ch/event/712792/contributions/2937067/attachments/1619147/2574980/LandauDampingForISRinstability_EM_19-03-18.pdf

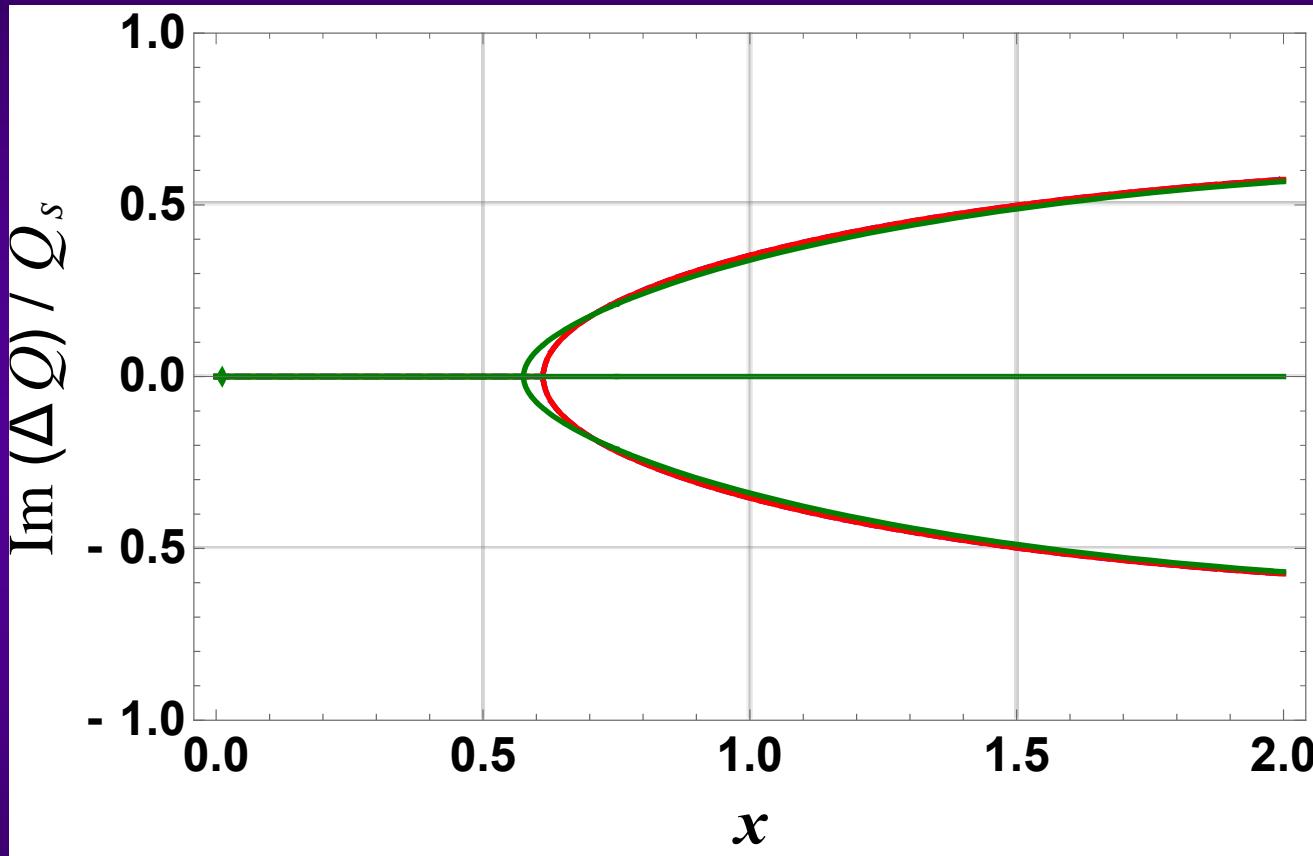
but without the destabilising effect of the transverse damper

- ◆ Still the numerical issue (adding a 3rd line) to be solved...

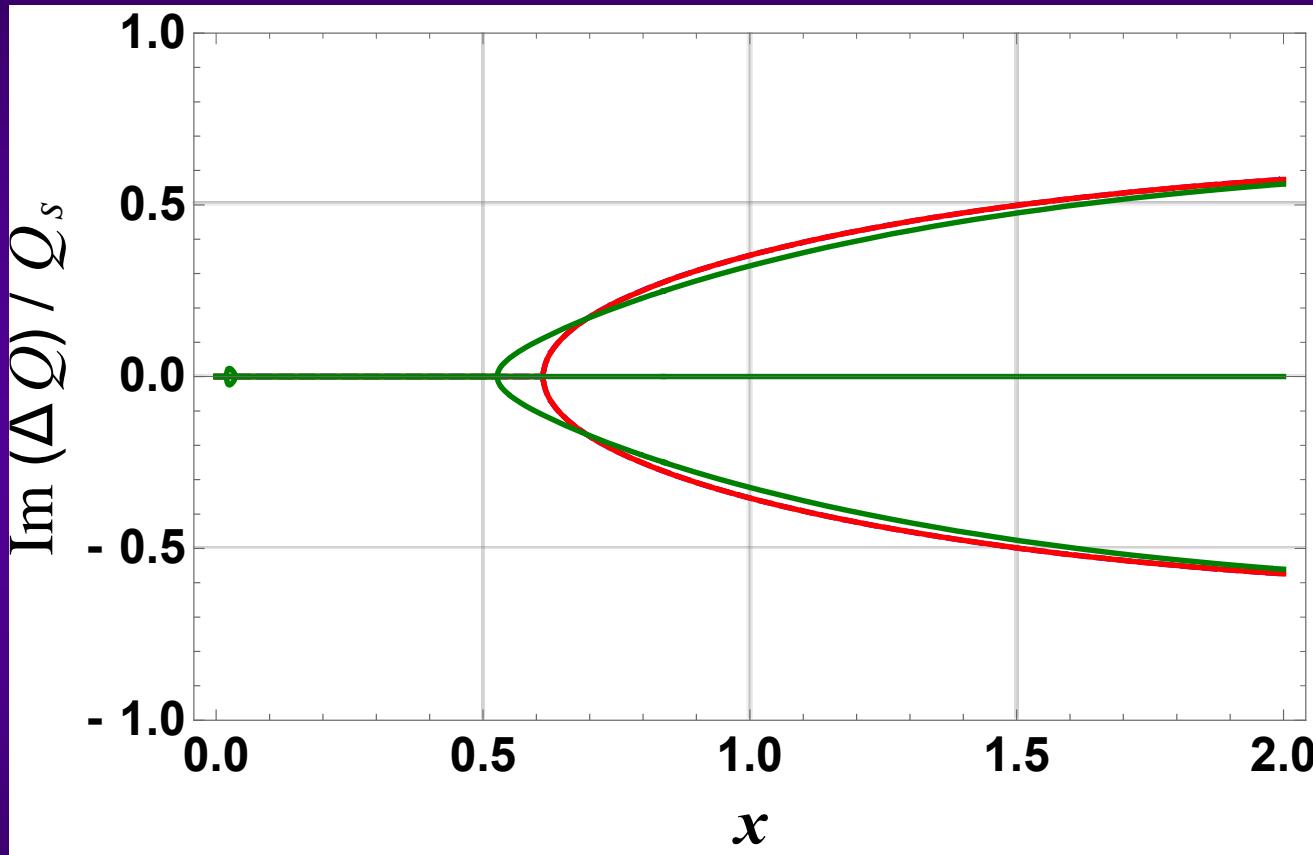
◆ $\Delta q = 0.1$



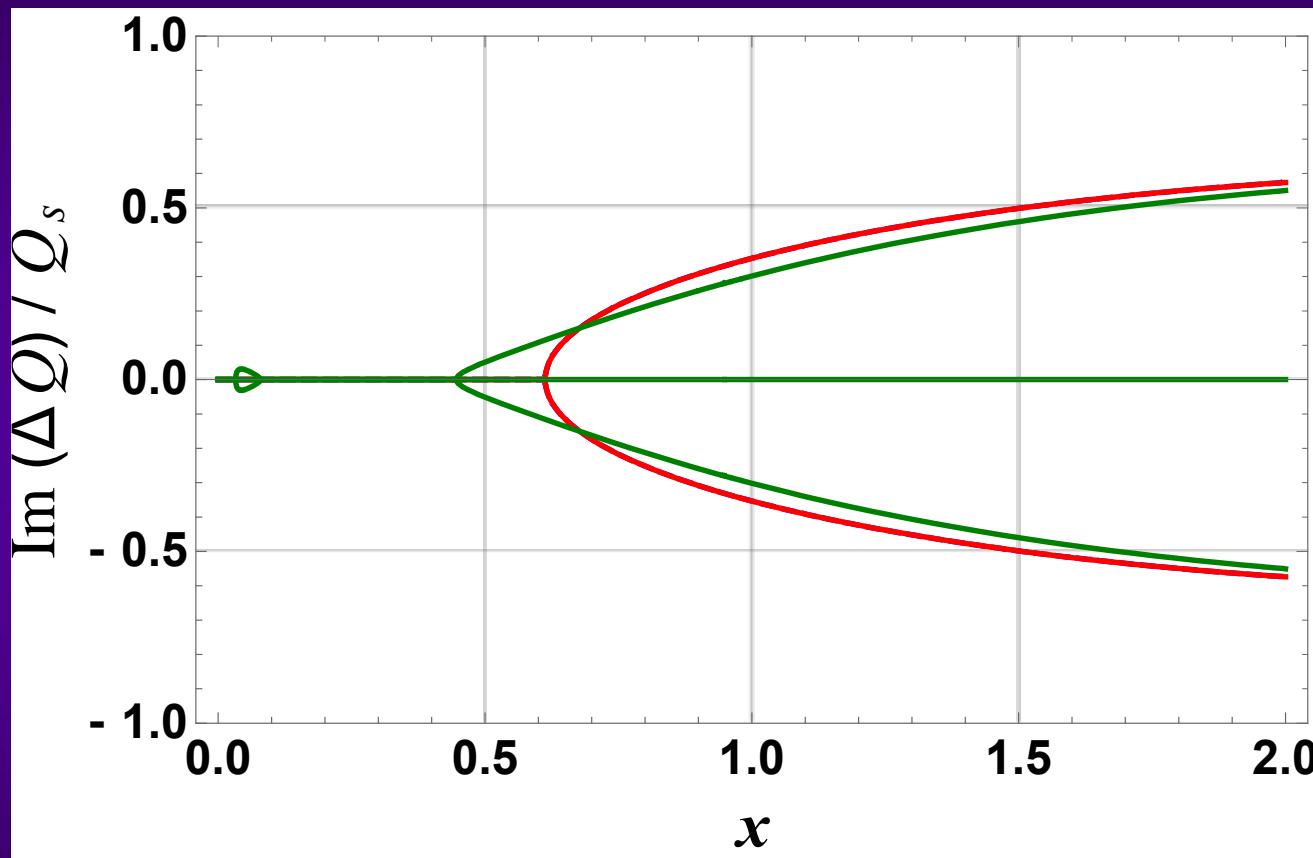
◆ $\Delta q = 0.2$



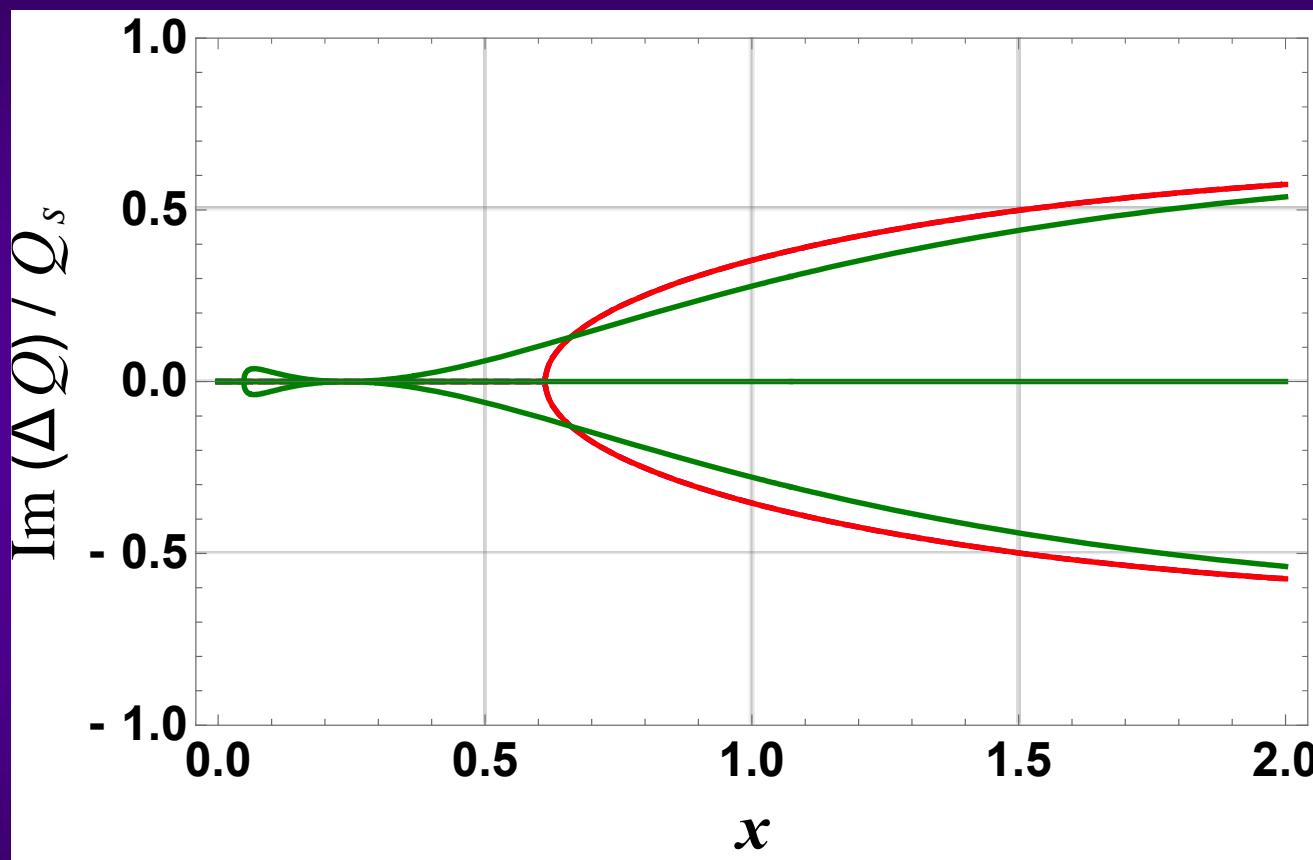
◆ $\Delta q = 0.3$



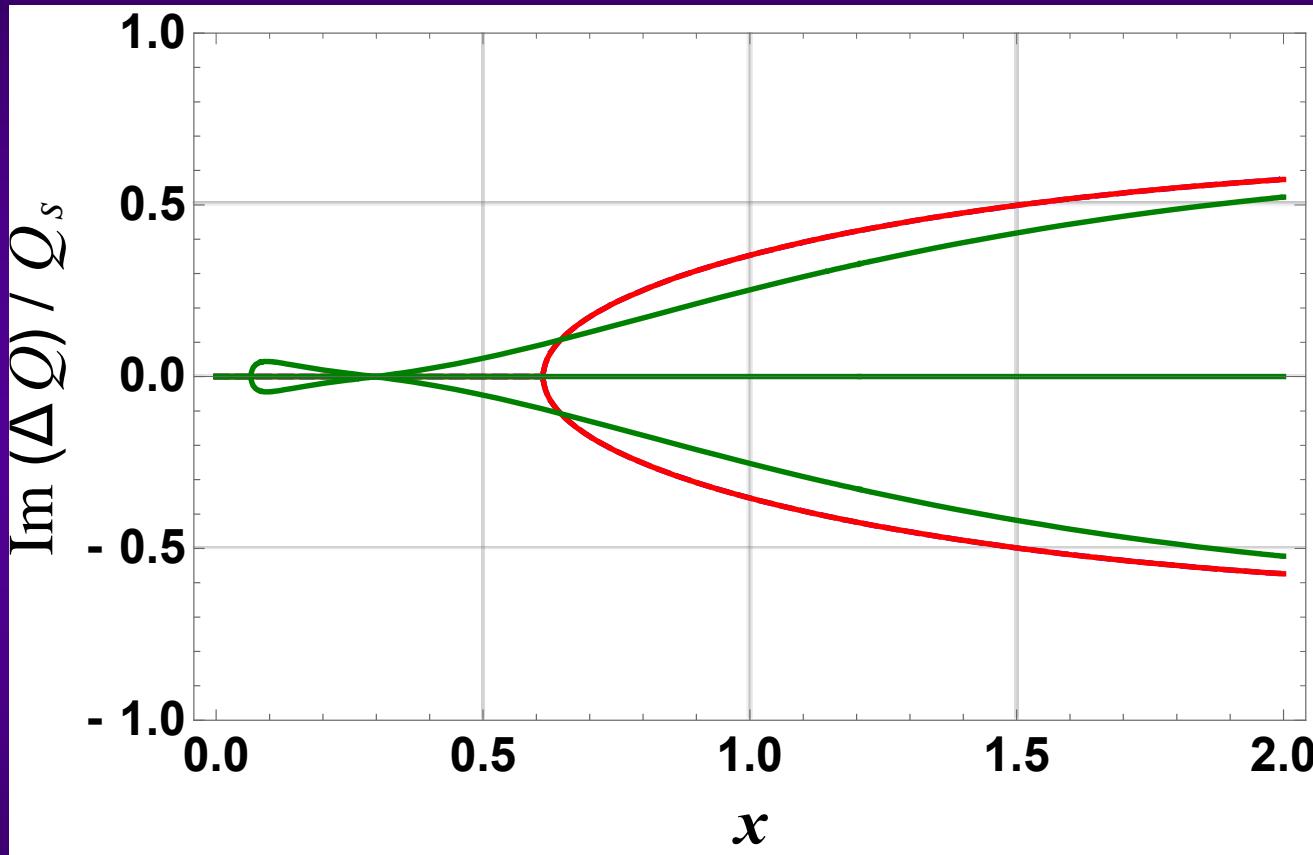
◆ $\Delta q = 0.4$



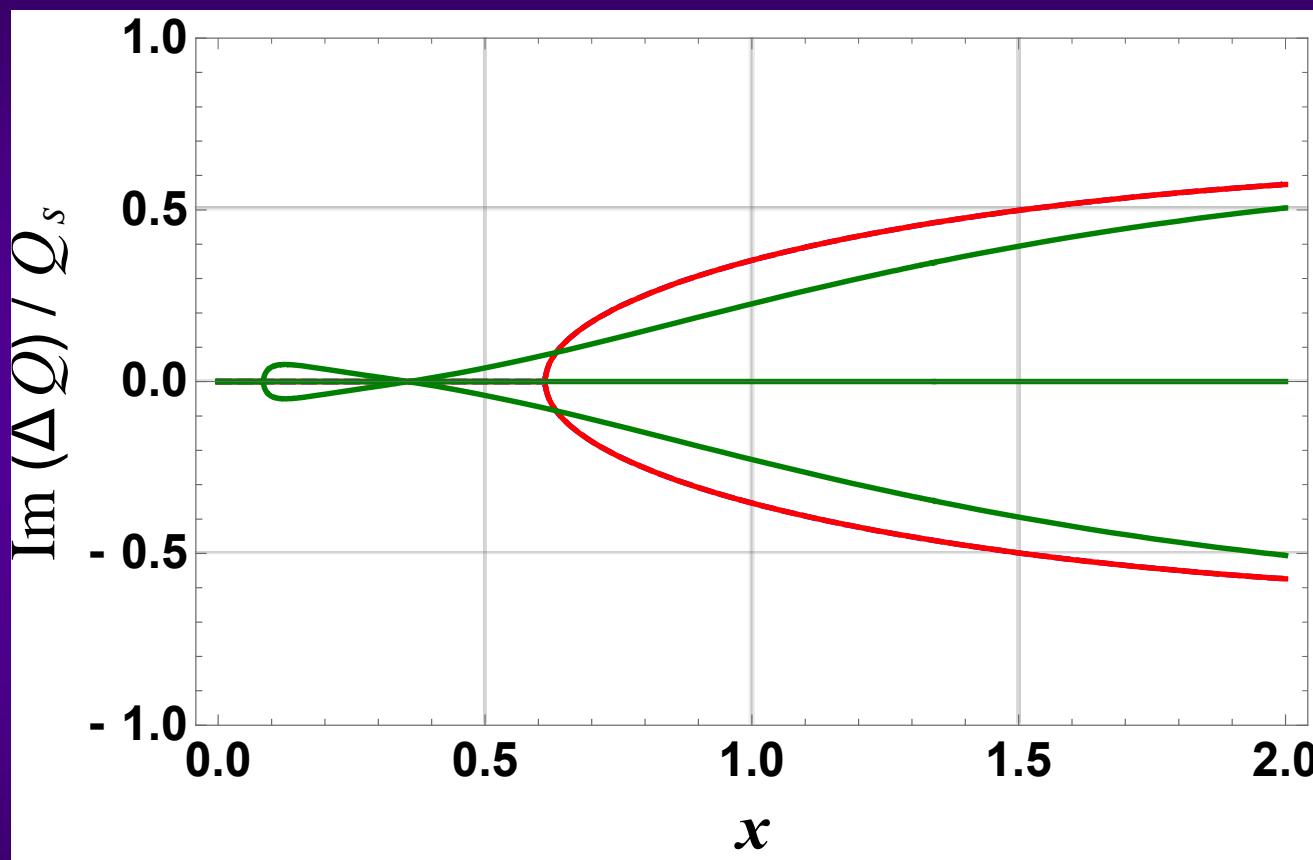
◆ $\Delta q = 0.5$



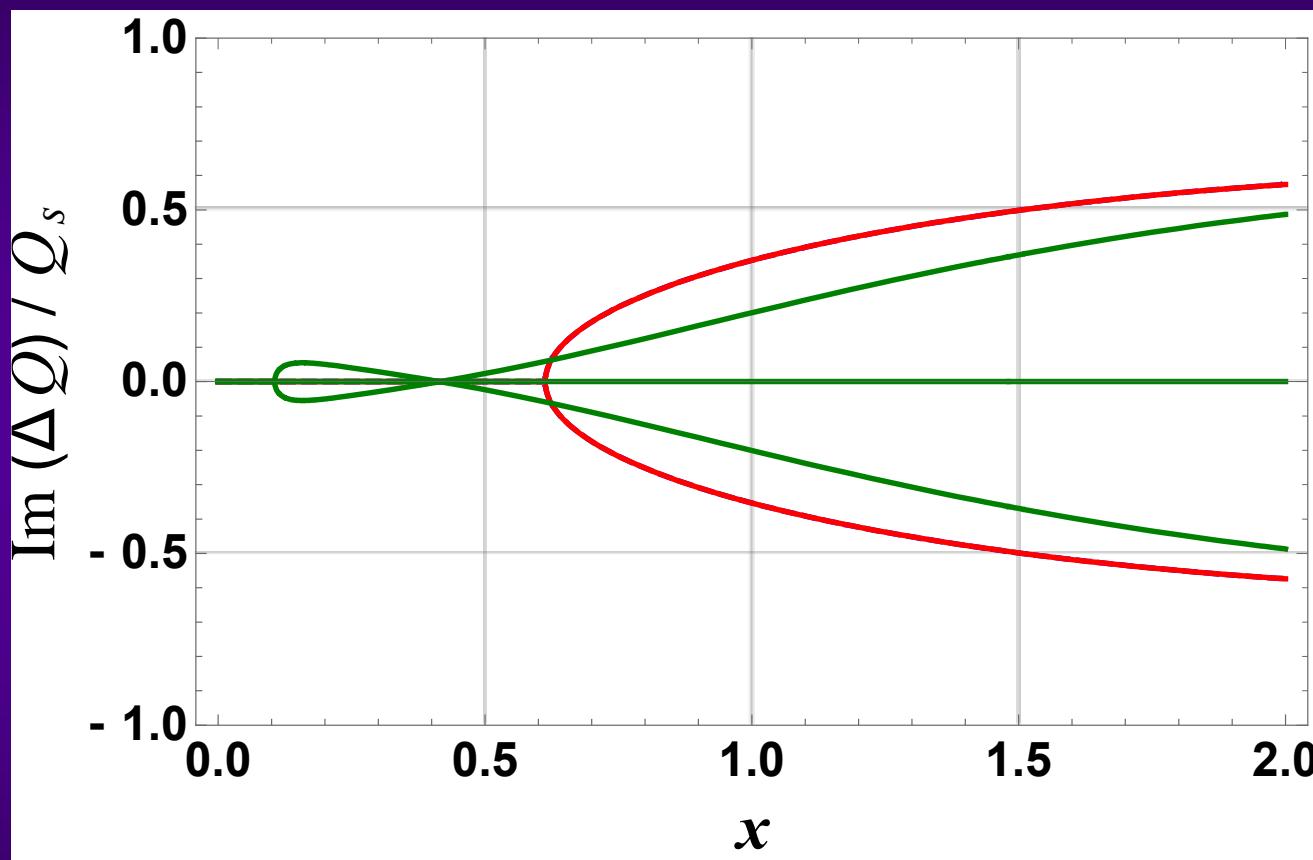
◆ $\Delta q = 0.6$



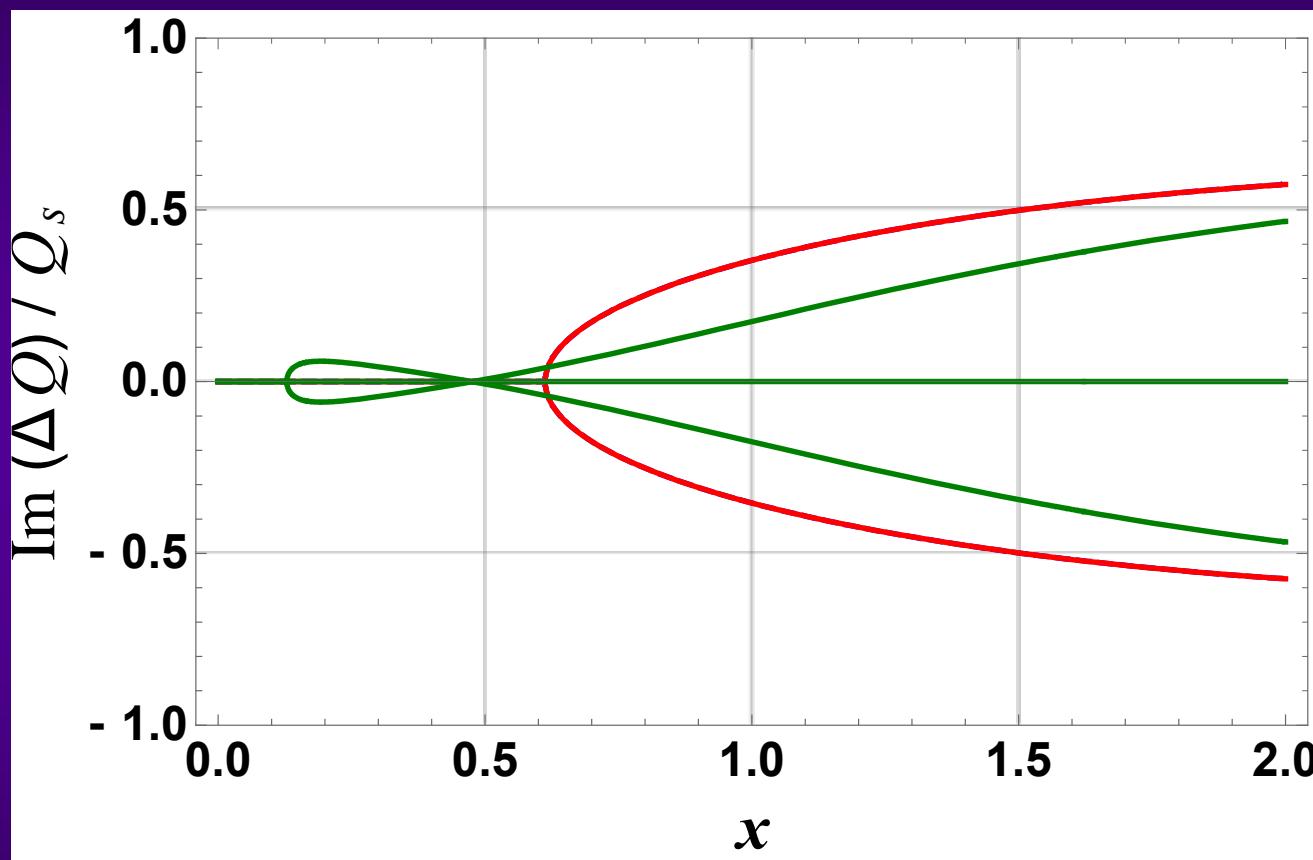
◆ $\Delta q = 0.7$



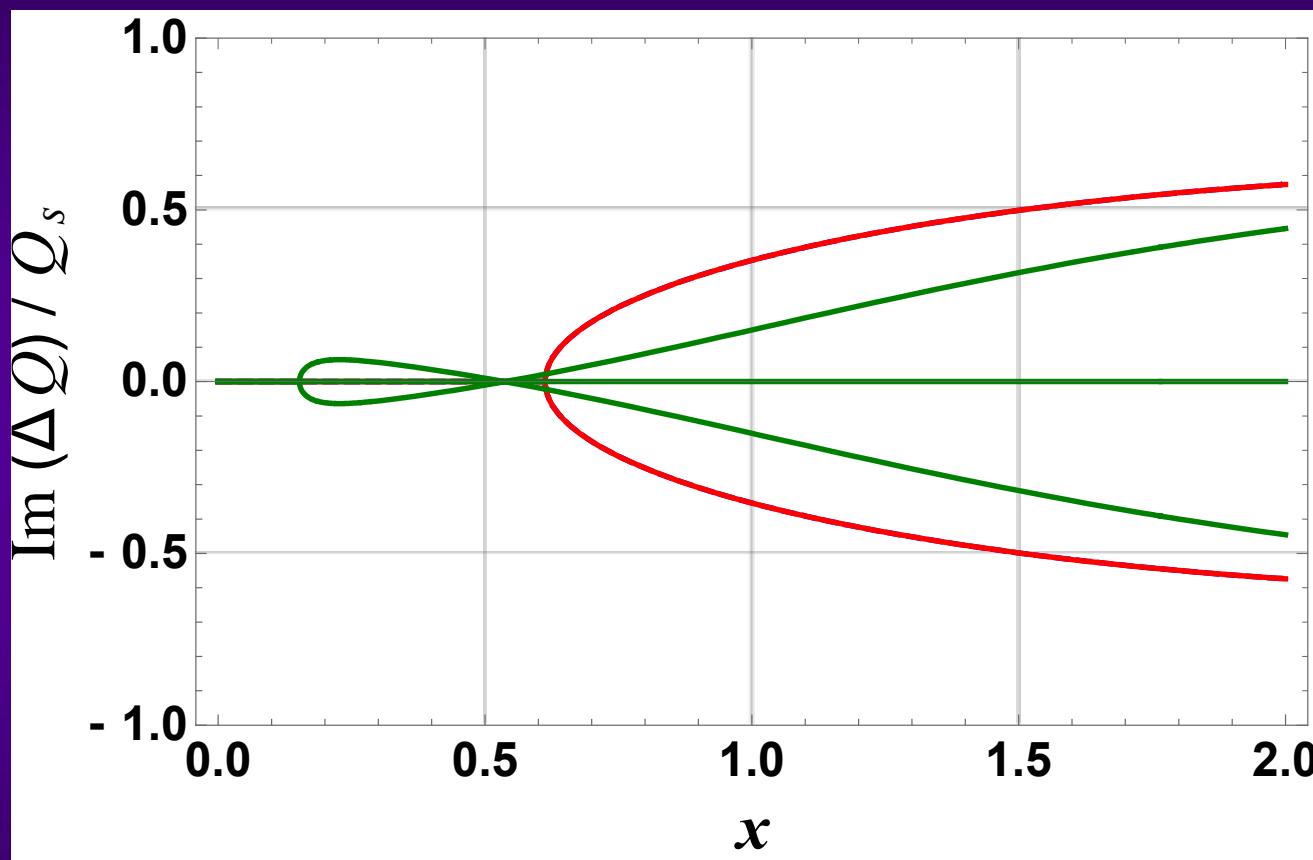
◆ $\Delta q = 0.8$



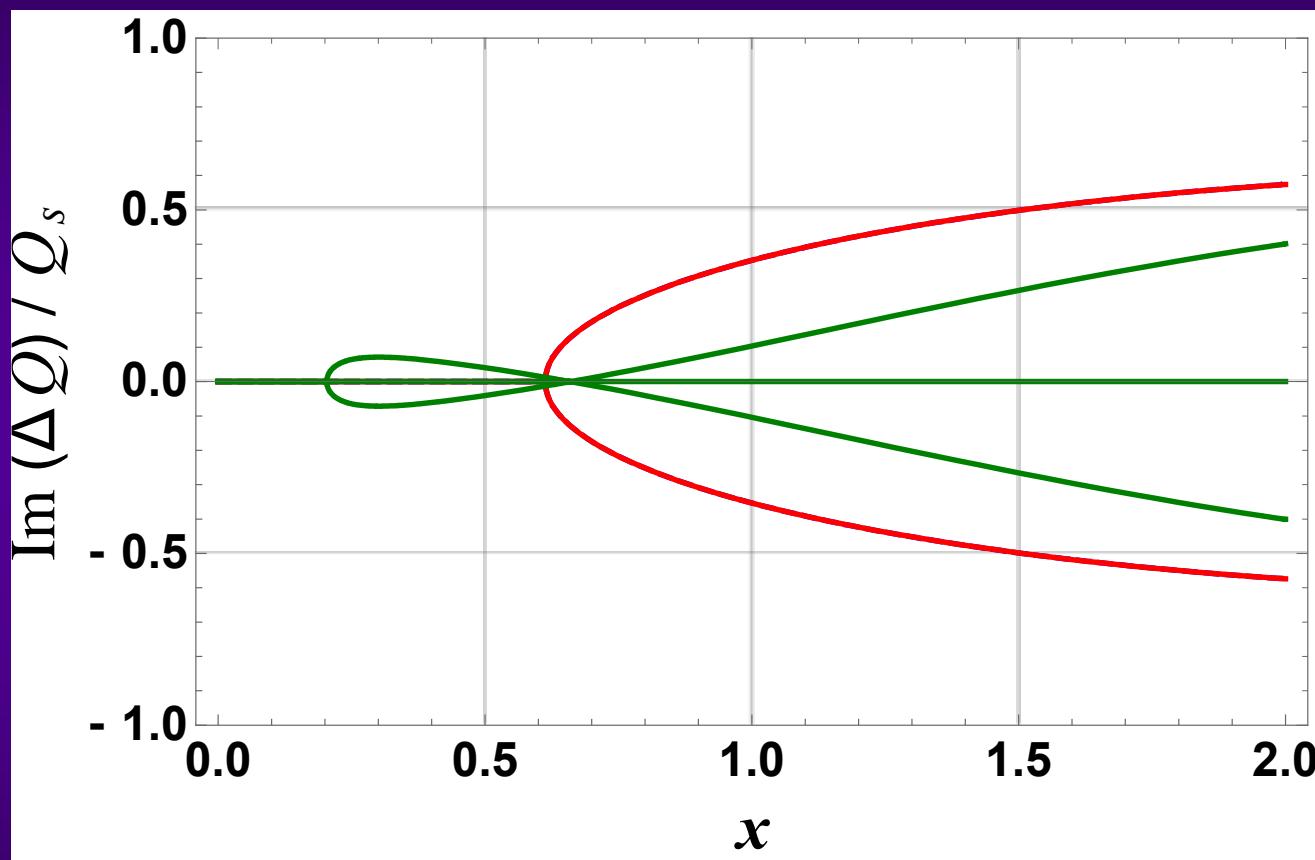
◆ $\Delta q = 0.9$



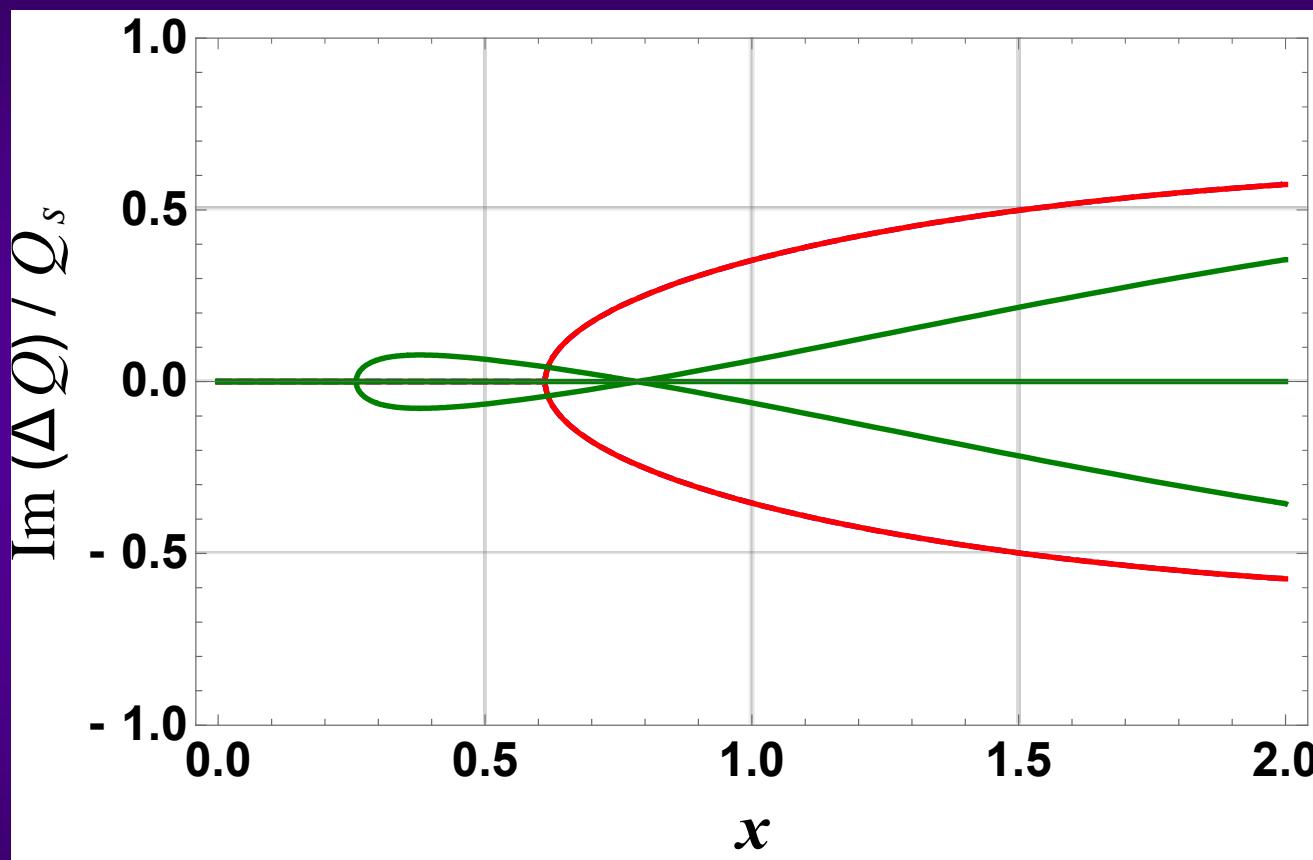
◆ $\Delta q = 1.0$



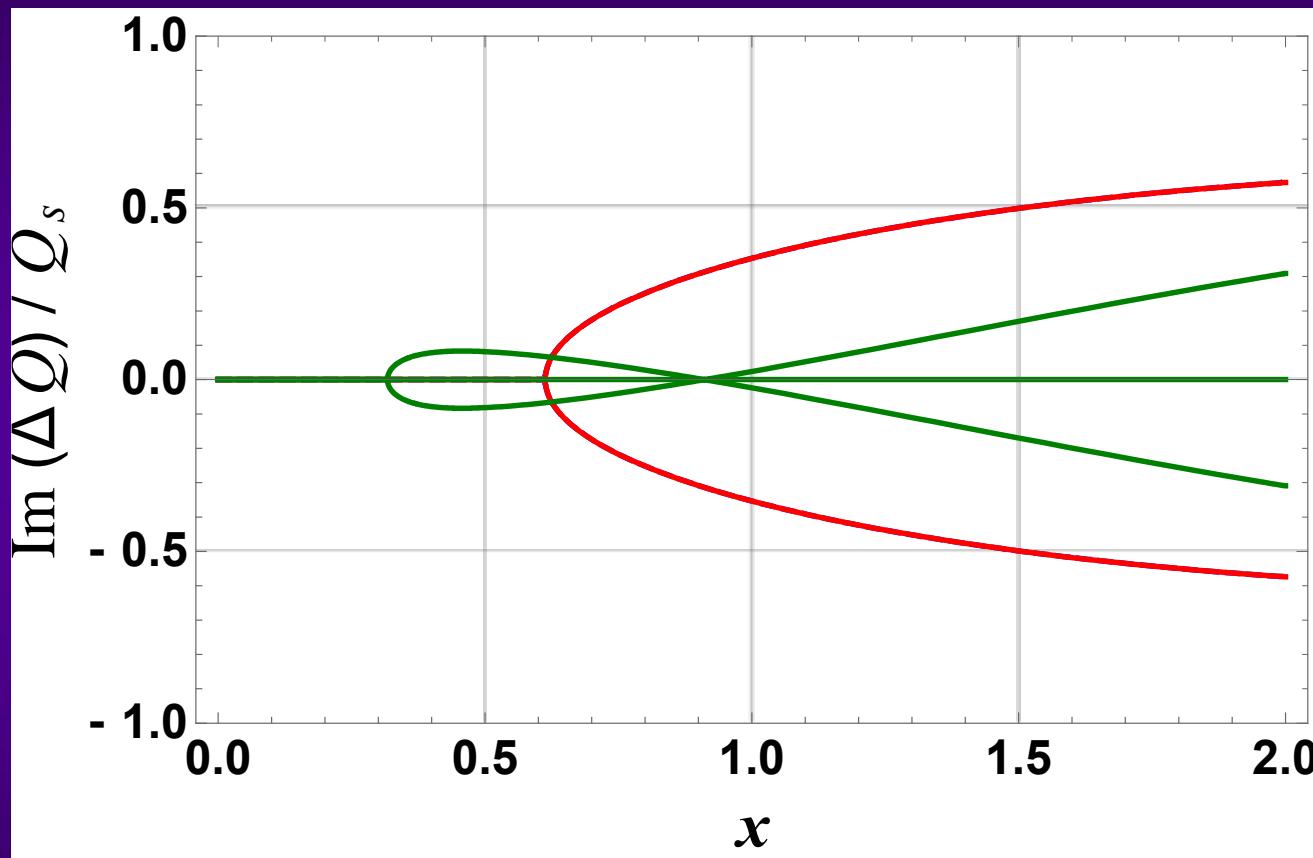
◆ $\Delta q = 1.2$



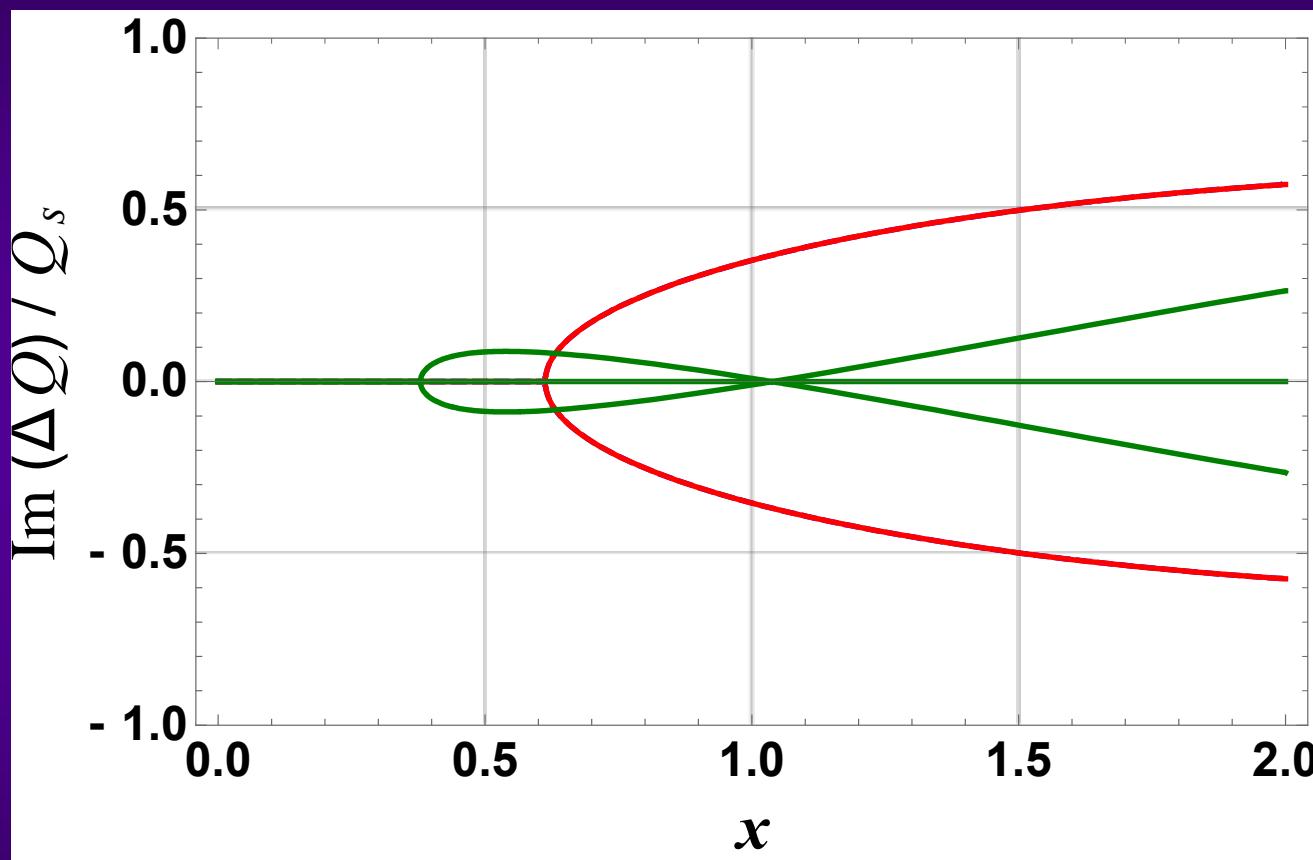
◆ $\Delta q = 1.4$



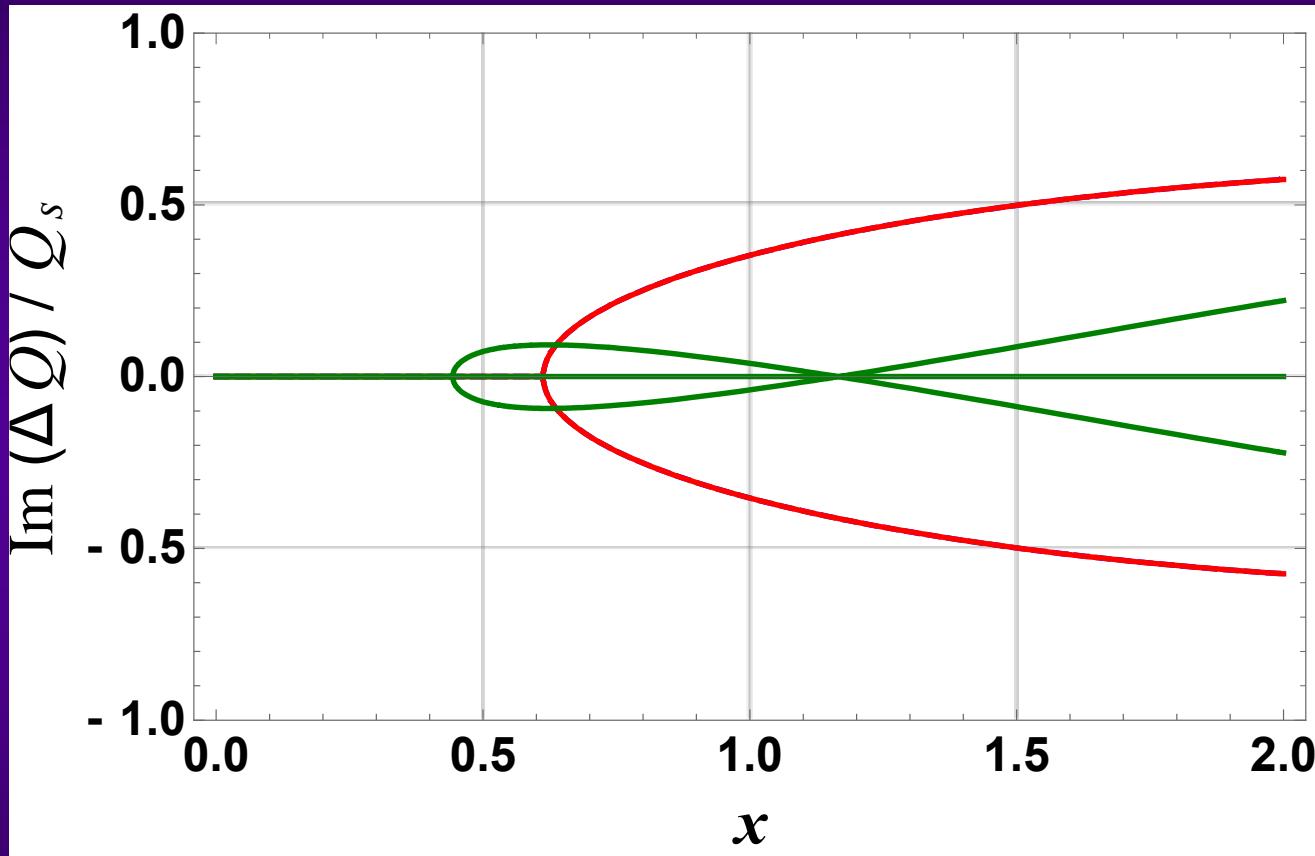
◆ $\Delta q = 1.6$



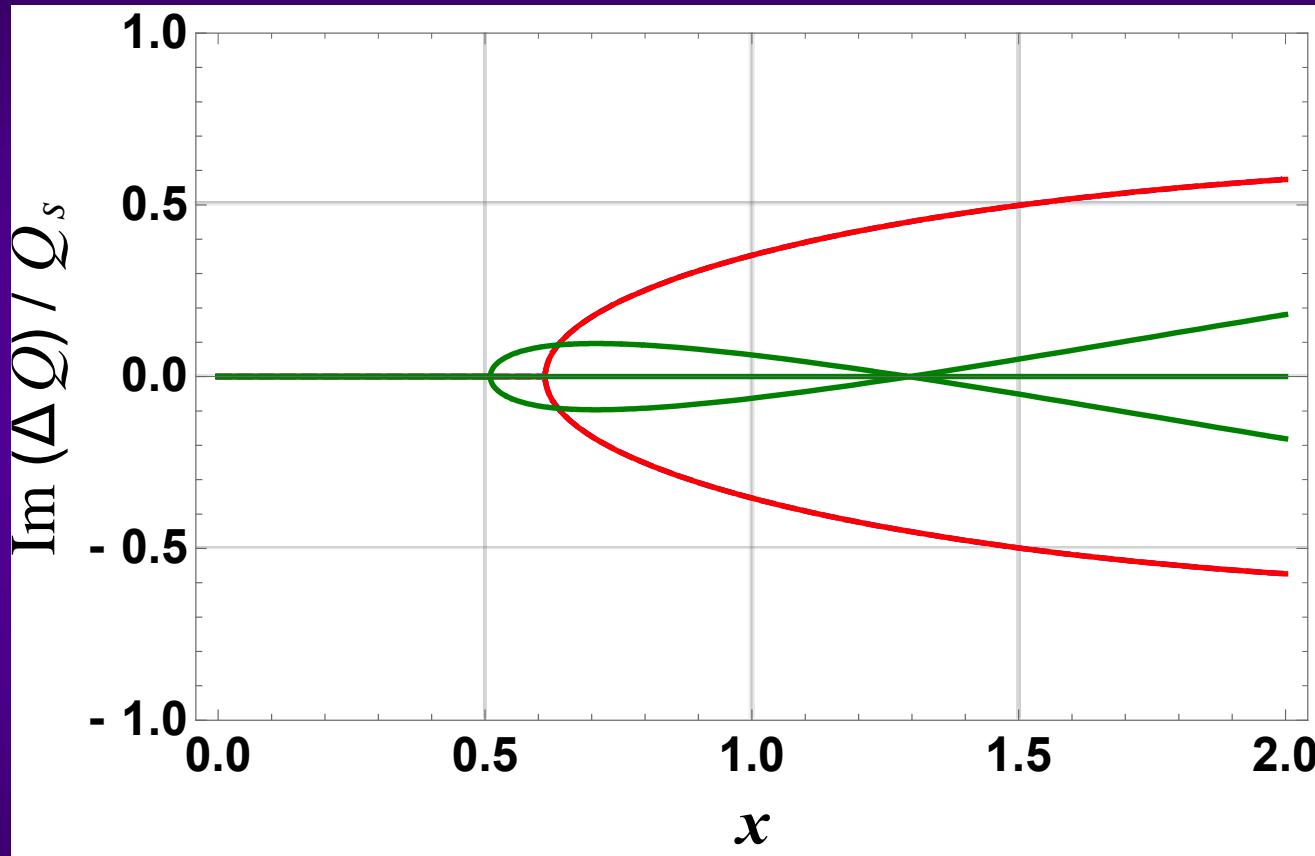
◆ $\Delta q = 1.8$



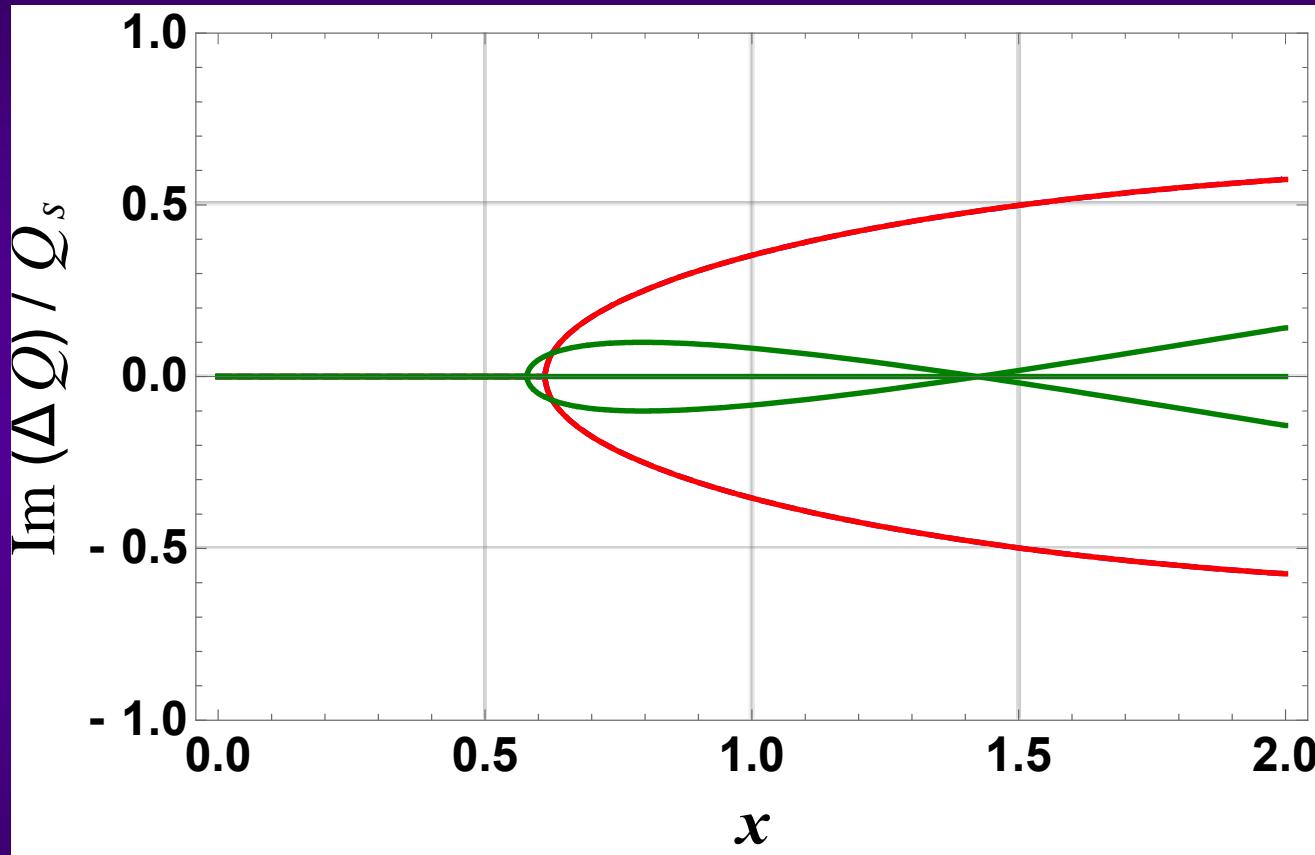
◆ $\Delta q = 2.0$



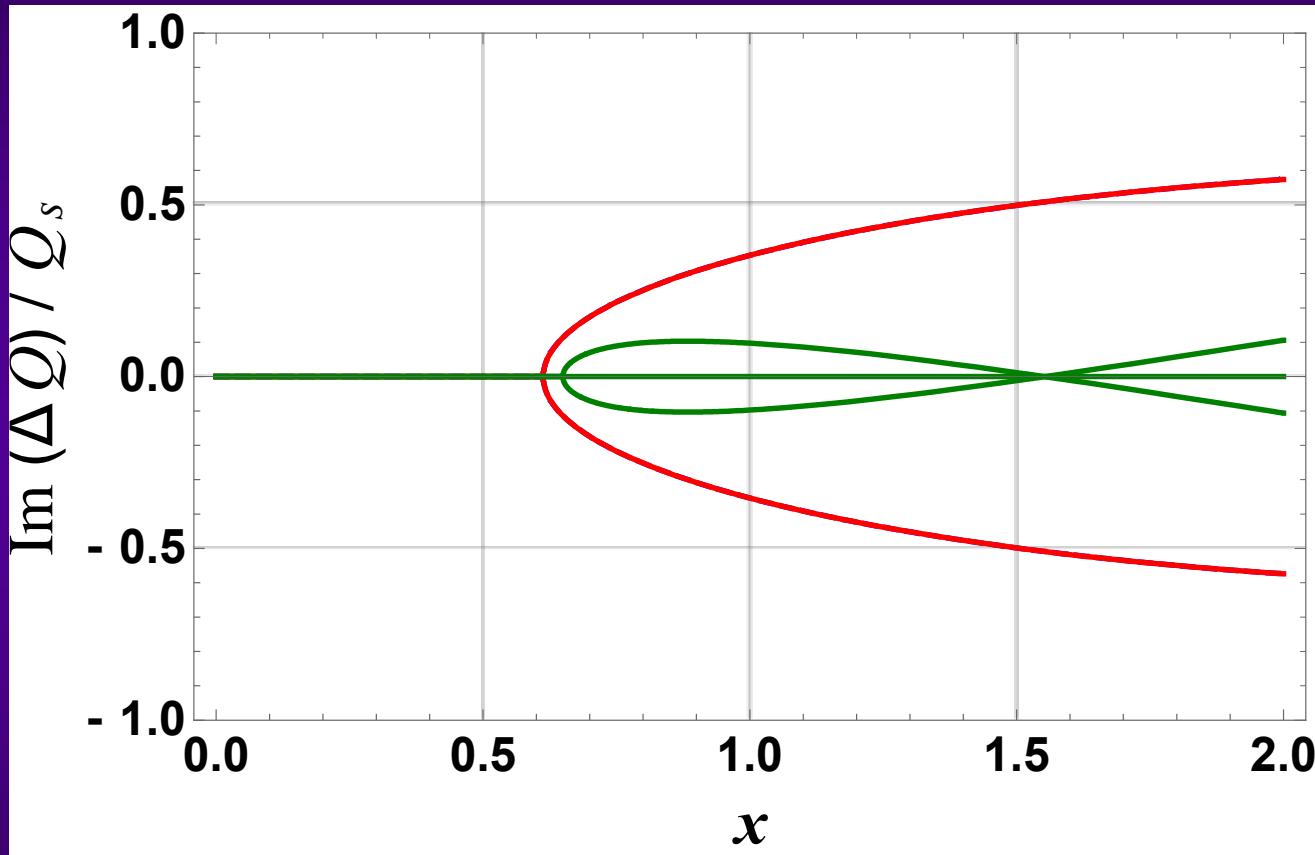
◆ $\Delta q = 2.2$



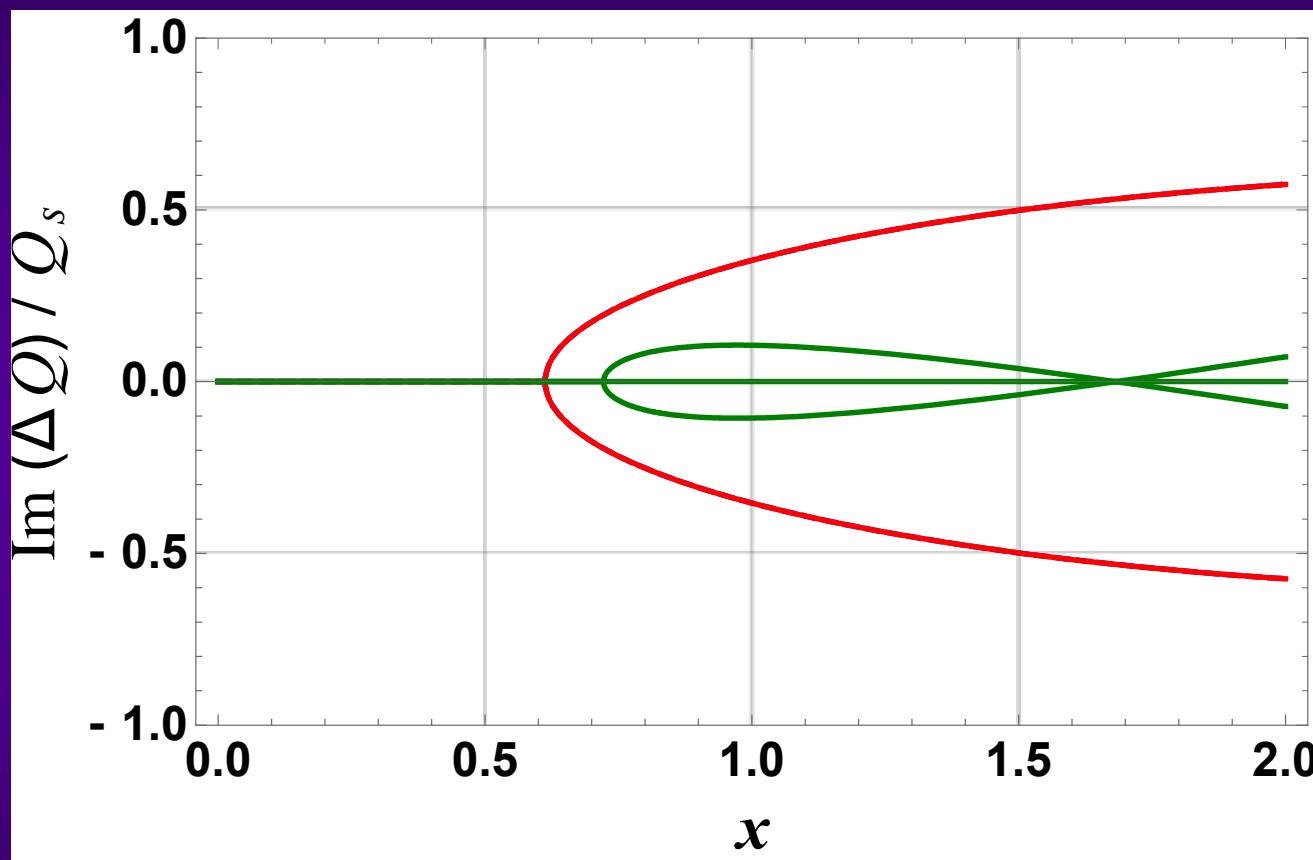
◆ $\Delta q = 2.4$



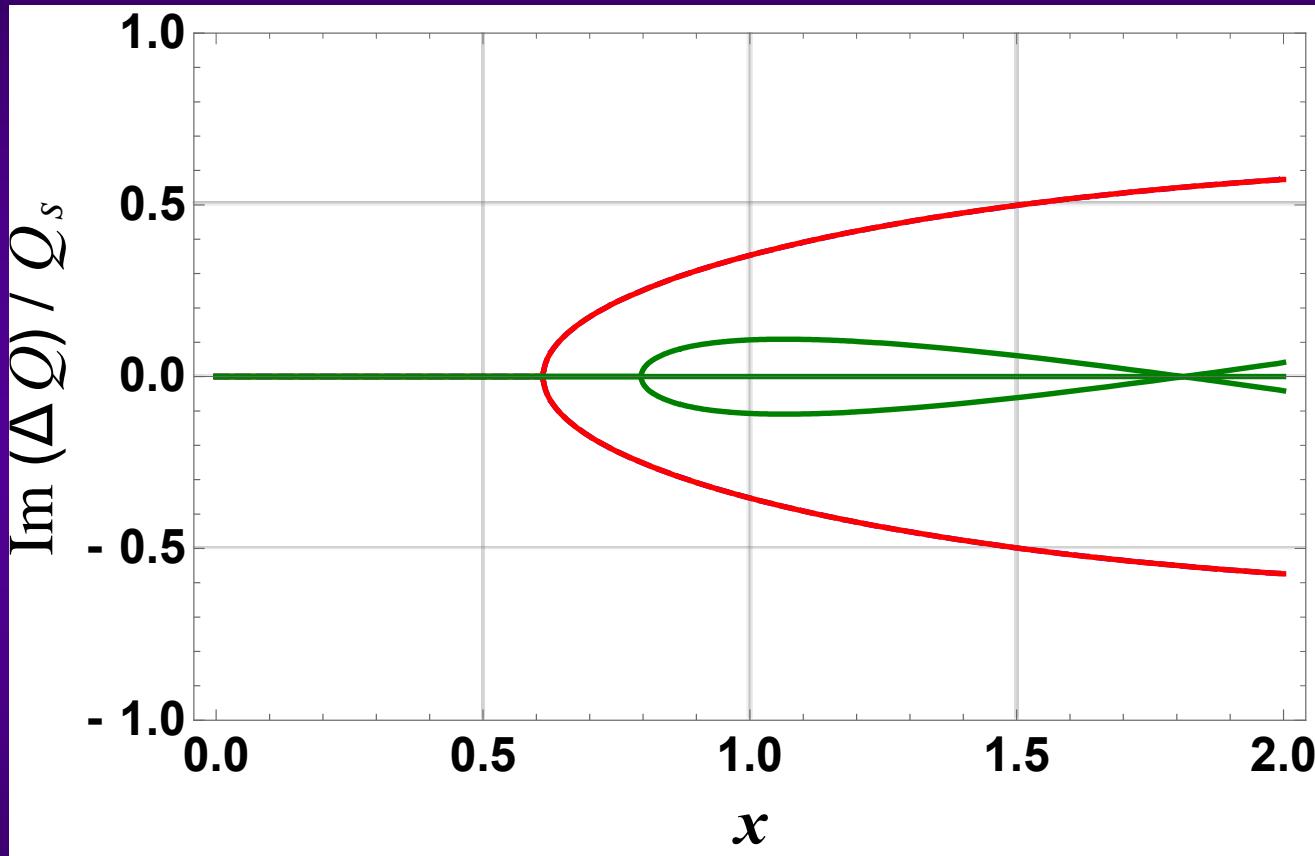
◆ $\Delta q = 2.6$



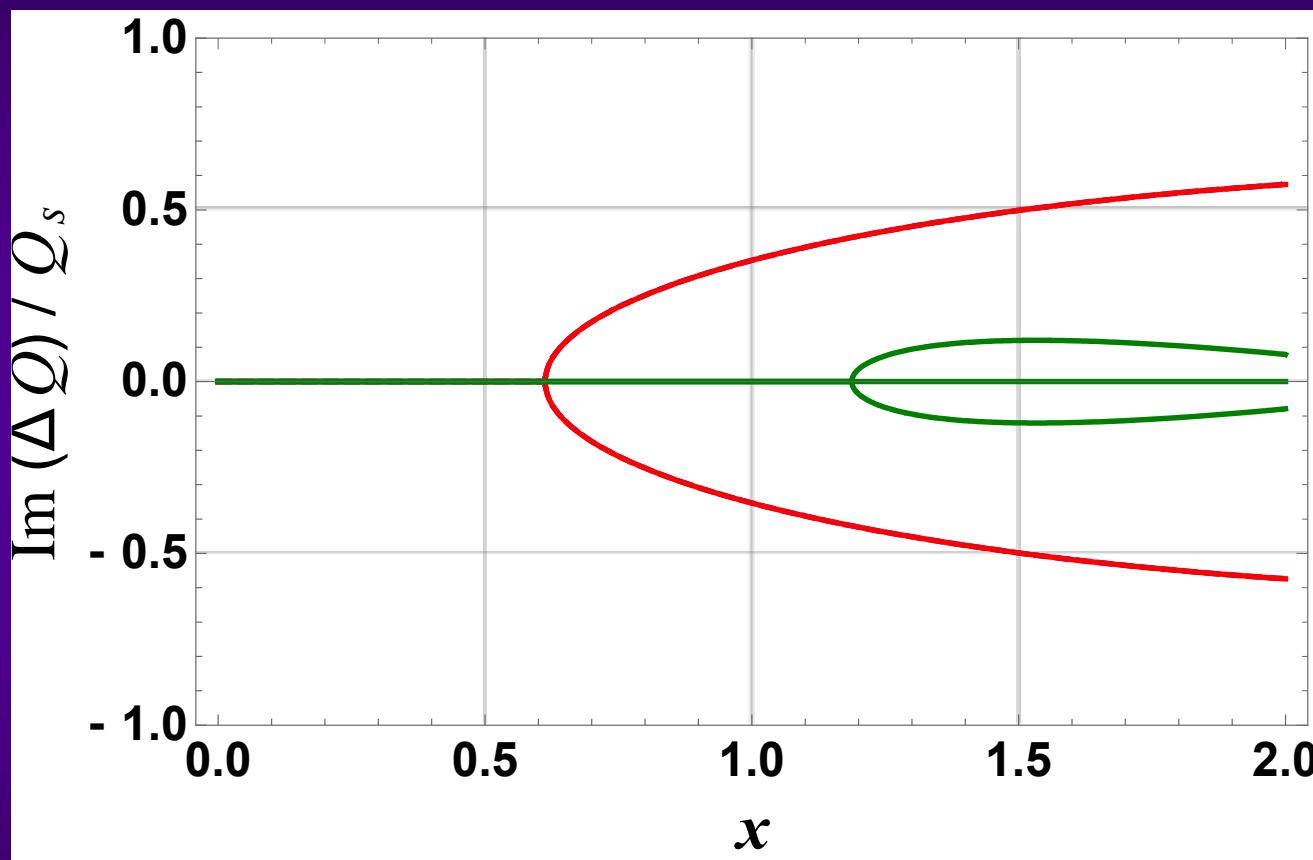
◆ $\Delta q = 2.8$



◆ $\Delta q = 3.0$



◆ $\Delta q = 4.0$



◆ $\Delta q = 5.0$

