A. $gs < gs^*$ with $gs^* = gf = 1 \& gs = 0.5$ Vs0<V0 Vs0=V0 Vs0>V0 **-30** -30 -dVs/dt = 0dVs/dt = 0dVs/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0**X** Saddle Degenerated bifurcation **X** Saddle -35 -35 -35 Stable Stable **-40 -45 -45 -45** -50 **-50 -50** -35 -50 **-45** -35 **-**50 -30 -30 -50 **-45** -40 -35 -30 gs=gs* with gs*=gf=1 & gs=1.0 Vs0<V0 Vs0=V0 Vs0>V0 -30 -30 -30 dV/dt = 0dVs/dt = 0dVs/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dVs/dt = 0**X** Saddle Stable -35 -35 -35 -40 **-40** -45 **-45 -45 -50 -50** -35 -35 -45 -30 -50 **-45 -30** -35 **-50 -40 -50** -45 -40 V C. gs>gs* with gs*=gf=1 & gs=2.0Vs0<V0 Vs0=V0 Vs0>V0 -30 -30 -30 dVs/dt = 0dVs/dt = 0dVs/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0-dV/dt = 0SaddleUnstable **X** Saddle Degenerated bifurcation -35 -35 -35 Stable -40 **-40 -**45 **-45 -45 -50 -50 -50** -50 **-45** -50 -35 -35 -35 **-50** -45 -30 **-**30 **-**45 **-40** -40 -30 -40 V V ٧