Math 3280 Worksheet 9: Equilibria of autonomous ODEs

Group members (2 to 4): _____

(1) Sketch the phase plot (equilibria and direction of solutions) for the ODE
$y' = y \sin y$ in the interval $y \in [-10, 10]$.

(2) Sketch the phase plot (equilibria and direction of solutions) for the ODE
$y' = y^9 - y$ in the interval $y \in [-2, 2]$.