A) equilibrium points are where fall equations equal zero: 1) 0 = -x2+28x-y with R:28 equation I solves to y = x. Plugging into equation 3, $0 = x^2 - \frac{3}{3}z + \frac{1}{2} = \frac{3}{3}x^2$. Plugging born into equation 2 $0 = -x^3\frac{3}{8} + 28x - x + 0 = \frac{3}{8}x^3 + 27x$ giving $x = \frac{1}{6}\sqrt{2} = y$. From this nethod z = 27 equilibrium points are then $(x \ y \ z) = (0 \ 0 \ 0) (652 \ 652 \ 27)$, and $(-652 \ -652 \ 27)$ see attached matlab