(2) The solutions are stable. Since $\lambda = -S < 0$, all honzero solutions decay exponerially, so every solution is not only stable, but asymptotically stable.

(2) h = 一元 = 章, Since h=0.5 > 0.4, it's unstable by Zulov's method.

(3) $y_1 = y_0 + hy_0' = y_0 + h\lambda y_0 = C | -J \times O \times J \times J = -IJ$

(4) | 1- hx = 1+25 | <1, it's stable by back ward Euler method.

(5) $y_1 = y_0 + h \lambda y_1$ $y_1 = \frac{1}{1 + h \lambda} y_0 = \frac{1}{1 + o \cdot J \times G \cdot J} \times 1 = \frac{1}{7}$