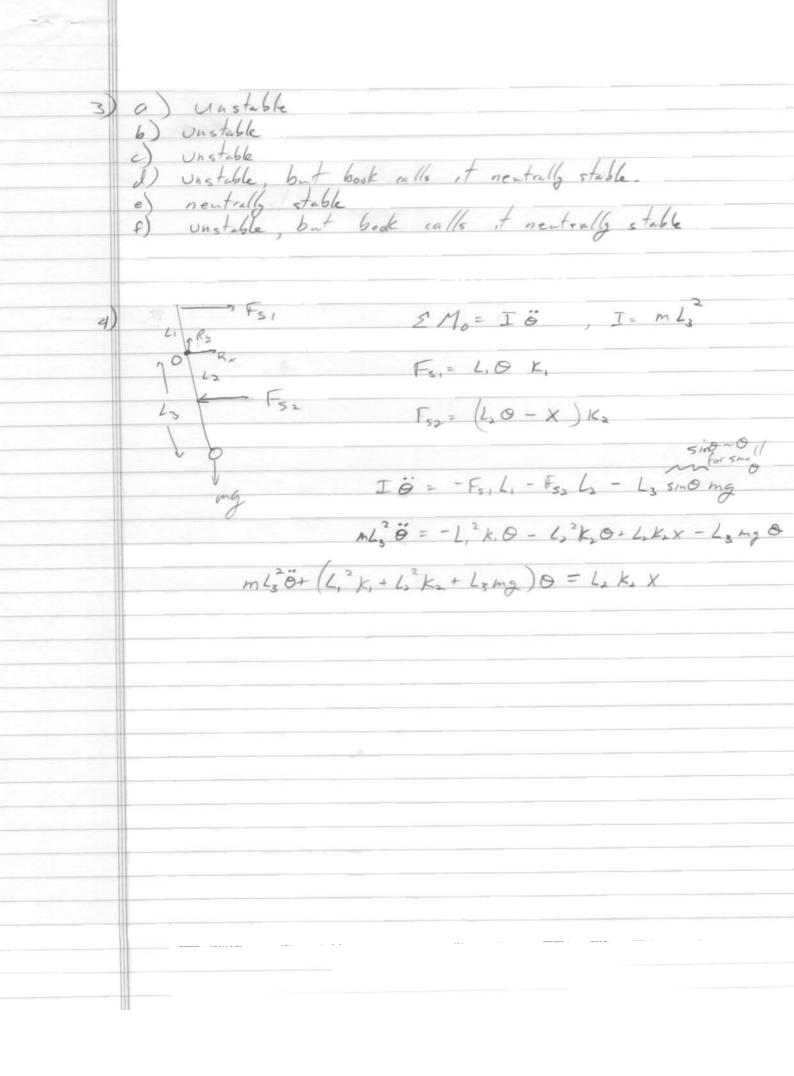
```
System Dynamics Exam 1 5, 2008 50/m
See cade at end
   6 = - 84.2
     J- 3.685×104
     5 = 1.69 = 105
 Obviously not a great let because the form of the
2) W3 = 1,42 W,
   KE = $ I4 W, 2 . $ I, W2
    = \frac{1}{2} \left( \overline{T_4} + \left( \overline{T_4} \right)^2 \overline{T_5} \right) \omega_1^2
       so Jess where the torque is applied
     Ier = I y + 1.44 Is
       T = Icos W.
        Since W, = (1.4) W3
        T = I eff (1.4) 4 W3
        05
          T= (I4 + (14) I5) (14)2 W3
      T= 0,09 Wz
```



```
x=[0:4]

y=[1 8 50 178 490]

a=polyfit(x,y,1)

plot(x,y,x,a(1)*x+a(2))

J=sum((a(1)*x+a(2)-y).^2)

S=sum((y-mean(y)).^2)

r2=1-J/S
```