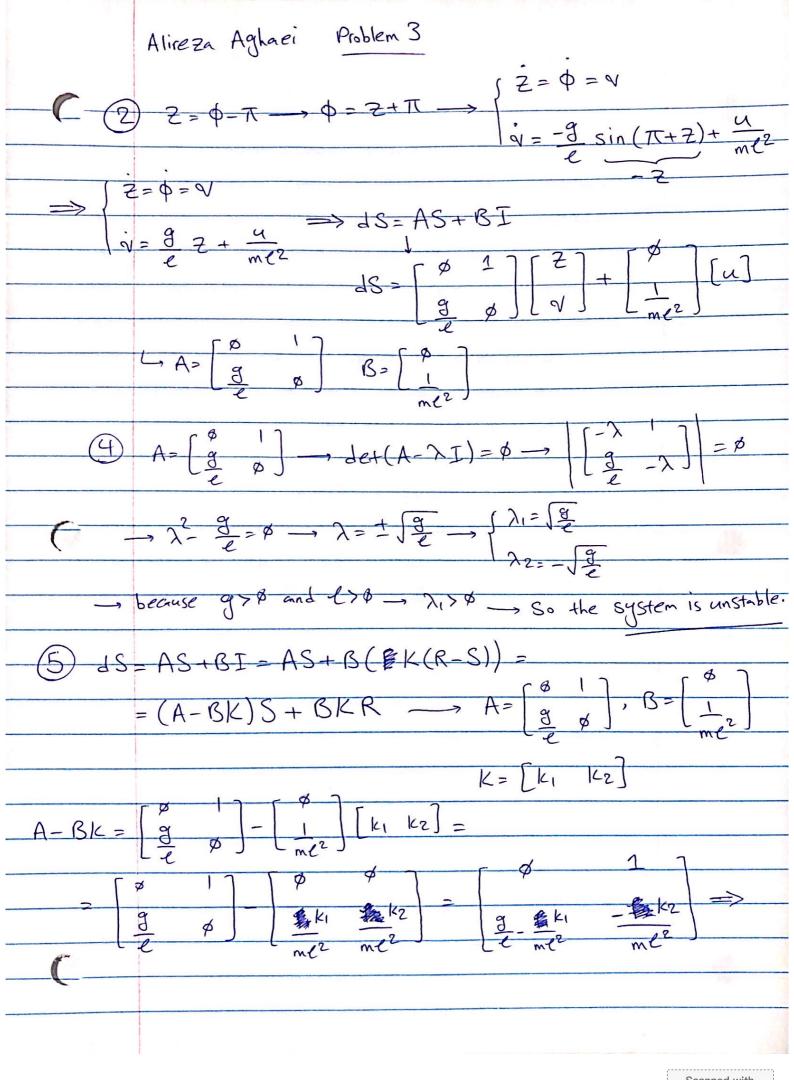
Alireza Aghaei Problem 3

1) It is a sine wave - because there is no friction

force in our model, so the

Pendulum will swing back and forth.



 $\left| \frac{g}{e} - \frac{kp}{mc^2} \right| = \beta \rightarrow \lambda^2 + \frac{|co|}{me^2} \lambda - \left(\frac{g}{e} - \frac{|cp|}{mc^2} \right) = \beta$ When we have m=l=1 -> kp7,0, lcp7,9