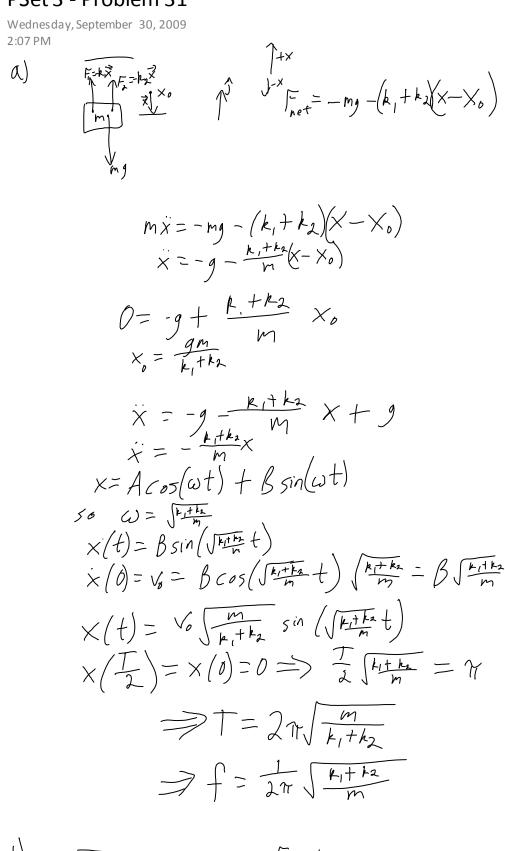
PSet 3 - Problem 31



$$F_{3} = -kx$$

$$F_{1} = -k_{1}x_{1} = F_{2} = -k_{2}x_{2}$$

$$x_{1} + x_{2} = \frac{F}{k} + \frac{F}{k}$$

$$k = \frac{k_1 + k_2}{k_1 k_2}$$

$$= \frac{k_1 + k_2}{k_1 k_2}$$

$$+ = 2 \pi \left(\frac{k_1 + k_2}{k_1 k_2} \right) \frac{k_1 k_2}{k_1 k_2}$$