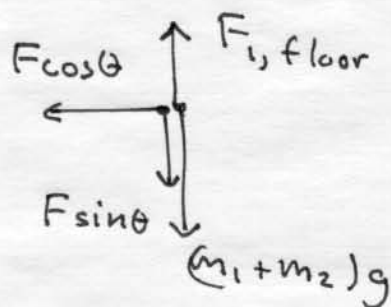
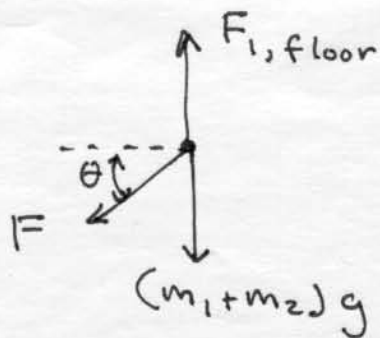
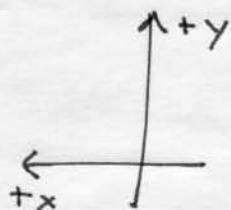


Problem 3

(a) $sys = m_1 + m_2$



~~N2~~ N2 x dir:

$$F \cos \theta = (m_1 + m_2) a$$

$$\boxed{a = \frac{F \cos \theta}{m_1 + m_2}} = 13.8 \text{ m/s}^2$$

(b) $sys = m_1$

N2 x dir:

$$\boxed{f_s = m_1 a} = 4.12 \text{ N}$$

↑
same a as above

since blocks move together

