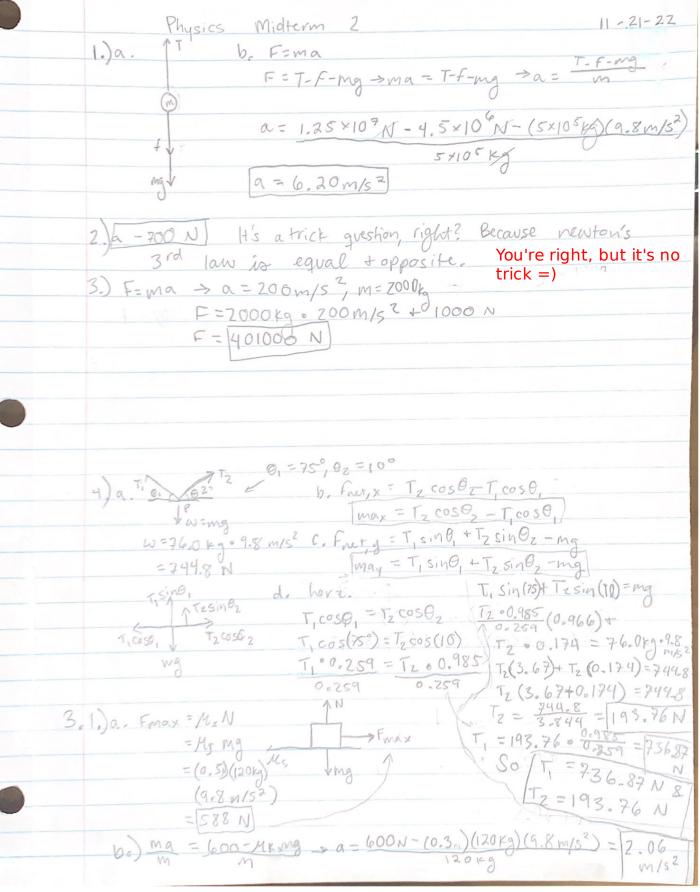
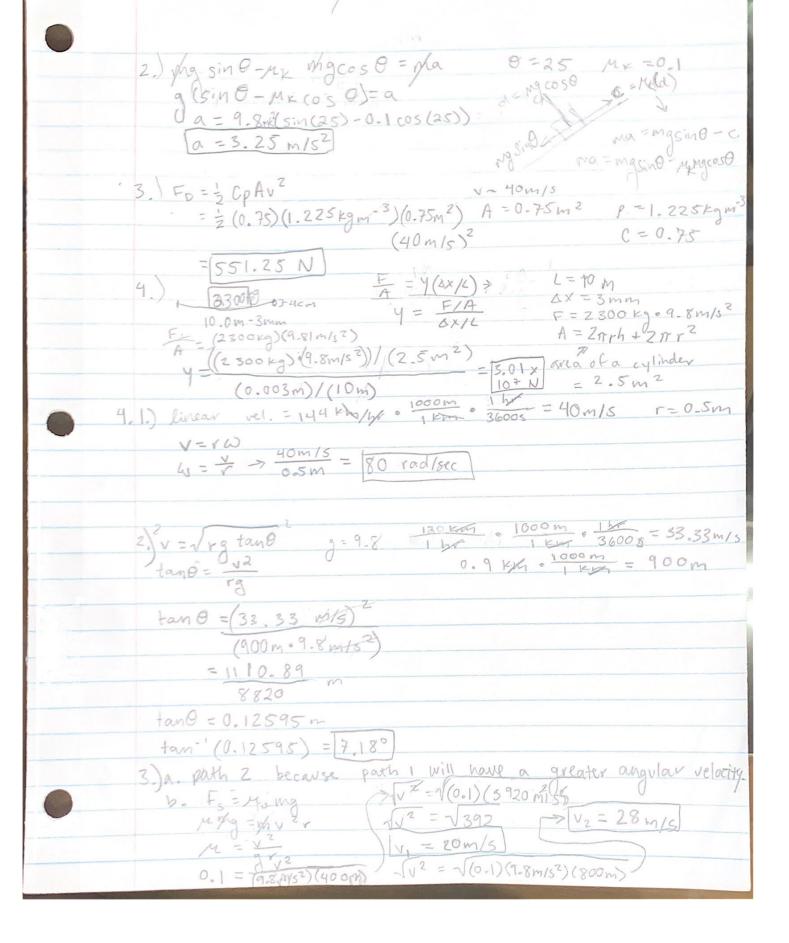
## Score: 22/20 Great work!





4.) a. 
$$\vec{F}_{J} = \frac{GM}{r^{2}}$$
 $G = 6.67450 \times 10^{-11} \frac{N \cdot m^{2}}{kg^{2}}$ 
 $F_{J} = \frac{GM}{r^{2}}$ 
 $G = 4.67420 \times 10^{11} N \cdot m^{2}/kg^{2})(1.4 \times 10^{22} kg)$ 
 $G = 6.67430 \times 10^{-14} M/s^{2}$ 
 $G = 6.67$ 

Compare:

3 - 9.21×10-10 m/s² - 2.0.×104

3 - 4.61×10-14 m/s²

(+2) Bonus! Well done.