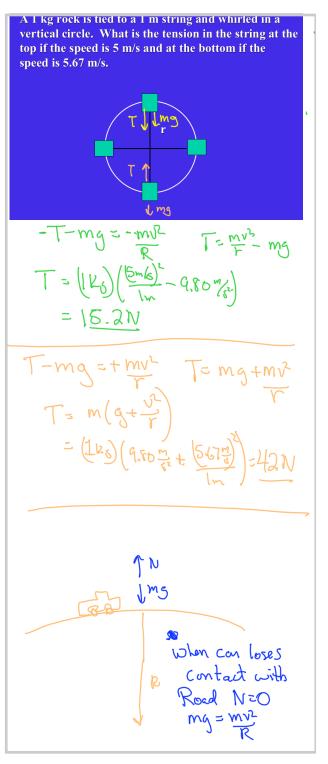
**Reminders 02-18-10:** -4th POW due Today by 5PM -Quiz 4 in lecture Today. -Quiz 5 Thursday Ch.5 and 6 in Lecture. -Homework 5 Due Tuesday the 23rd. -Minor Changes made to Atwood's Lab. -I Won't Be Here Much Tomorrow **Objectives:** -Newton's Laws Applied to Circular Motion -Inertial Reference Frames -Air Resistance

M G. Effect Sls Free-body dragram

Title: Feb 18-11:14 AM (2 of 7)



Title: Feb 18-11:20 AM (3 of 7)

$$N = mv^{2}$$

$$N = mv^{2} - mg$$

$$= m(v^{2} - mg)$$

$$= Solg(Smls)^{2} - q.80)$$

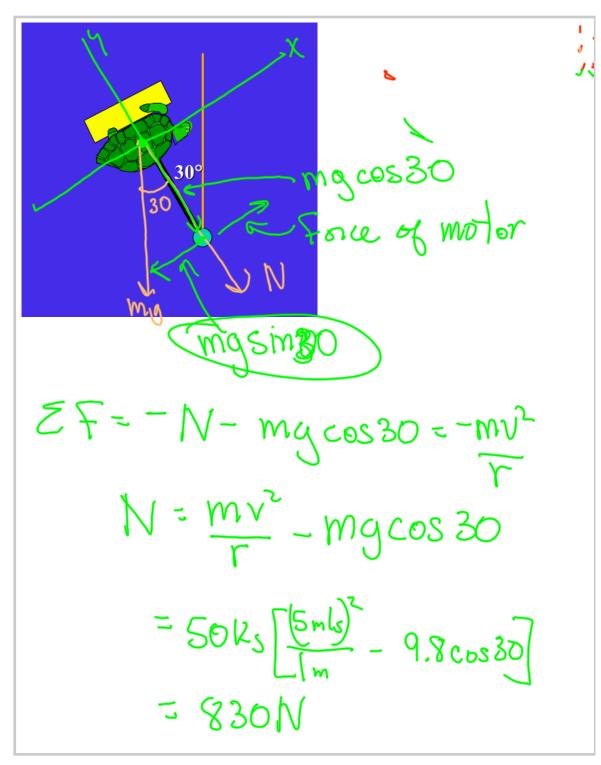
$$= 760 \text{ K}$$

$$N - mg = mv^{2}$$

$$N_{borrow} = m(v^{2} + q.80)$$

$$= 1740 \text{ K}$$

Title: Feb 18-11:32 AM (4 of 7)



$$F_{N} \sin \theta$$

$$F_{N} \cos \theta$$
hat should  $\theta$  be so  
car makes the turn  

$$F_{N} \cos \theta$$

$$F_{N} \cos \theta$$

$$F_{N} \cos \theta$$

$$F_{N} \sin \theta$$

$$F_{N} \cos \theta$$

$$F_{N} \sin \theta$$

Title: Feb 18-11:50 AM (6 of 7)

