	: For static friction 0 <fs &="" th="" un<=""><th></th></fs>	
Example	Spruning Terror:	
	, E	
	The state of the s	
	O'R	
	$N = m R \omega^2$	
	$N = m R \omega^2$ Radial acceleration $F_5 = mg$	
	F ₁ = mq	
	$F_{5} < \mu N = \mu m R \omega^{2}$	
	11/2 A 11 14 19 19 19 19 19 19 19 19 19 19 19 19 19	
	ydg < mylpw	
	$\omega^2 > \frac{3}{\mu R}$	
	For 12= 0.5 & R= 10 meters womin ~ 1.4 ral/seo	
	$\omega = 2\pi f \Rightarrow f = \frac{\omega}{2\pi} = 0.22 \text{ s}^{-1} = 16.2 \text{ min}^{-1}$	
1 h : 1		
String 1	msias:	
W.	3 - F F String Mass=M	
W.		
m a	S=4 String Mass=un sed system is being pulled by fure F. What is the force on the block due to s	.h
m a	3 - F F String Mass=M	s.h.
m a Comb	S=4 String Mass=111 sed system is being pulled by force F. What is the force on the block due to s guore granity.	
m a Comb	S=4 String Mass=111 sed system is being pulled by force F. What is the force on the block due to s guore granity.	s.h.
m a Comb	S=4 String Mass=un sed system is being pulled by force F. What is the force on the block due to s guare granity.	•
m a Comb	S=4 String Mass=111 sed system is being pulled by fore F. What is the force on the block due to s guare granity. Fr=Fr=11111111111111111111111111111111	**
m a Comb	String Mass=m sed system is being pulled by force F. What is the force on the block due to s guarre granity. F-F'= mas F'=F, and a=a	.
m a Comb	String Mass=m sed system is being pulled by force F. What is the force on the block due to s guarre granity. F-F'= mas F'=F, and a=a	
m a Comb	S=4 String Mass=100 s=4 String Mass=100 sed system is being pulled by fine F. What is the force on the block due to s quore granity. F-F.'= mas F'=F, and as=au F1=100	
m a Comb	S=4 String Mass=100 s=4 String Mass=100 sed system is being pulled by fine F. What is the force on the block due to s quore granity. F-F.'= mas F'=F, and as=au F1=100	**
m a Comb	String Mass=m sed system is being pulled by force F. What is the force on the block due to s guarre granity. F-F'= mas F'=F, and a=a	

Fix F

If M> m > F
$$\approx$$
 F.

If M> m > F \approx F.

Y

White force on any point on string is zero. IF(x) I is tension.

Note force on any point on string is zero. IF(x) I is tension.

Viscosity: The recipionne force felt by a body morning tensage a finish

Fr = CT

T > Volocity of a morning tensouse any/valet

C = 6Thyr

P > Dynamic Viscosity

$$F = 6ThyrV = 6ThyrV

F = 41^{17} T^{1}

F xample: Terminal velocity of a small spherical droplet folling tensouse air:

M dv = -6ThyrV + mg

Av = -6ThyrV + g

Fin a droplet:

m = $\frac{1}{2}$ ThyrV = $\frac{1}{2}$ T$$

If the initial velocity V=0 The velocity will increase unit $\frac{dV}{dt}=0$ $\Rightarrow V_{E} = \frac{2}{9} \frac{9\rho_{H} r^{2}}{\eta}$ For water droplets: $\rho_{W} = 1000 \text{ Kg/m}^{3}$ $\eta = 1.8 \times 10^{-5} \text{ Kg/m} \cdot \text{s}$ $\Rightarrow V_t = 3 \times 10^{-3} \text{m/s}. \qquad r = 5 \times 10^{-6} \text{m}$