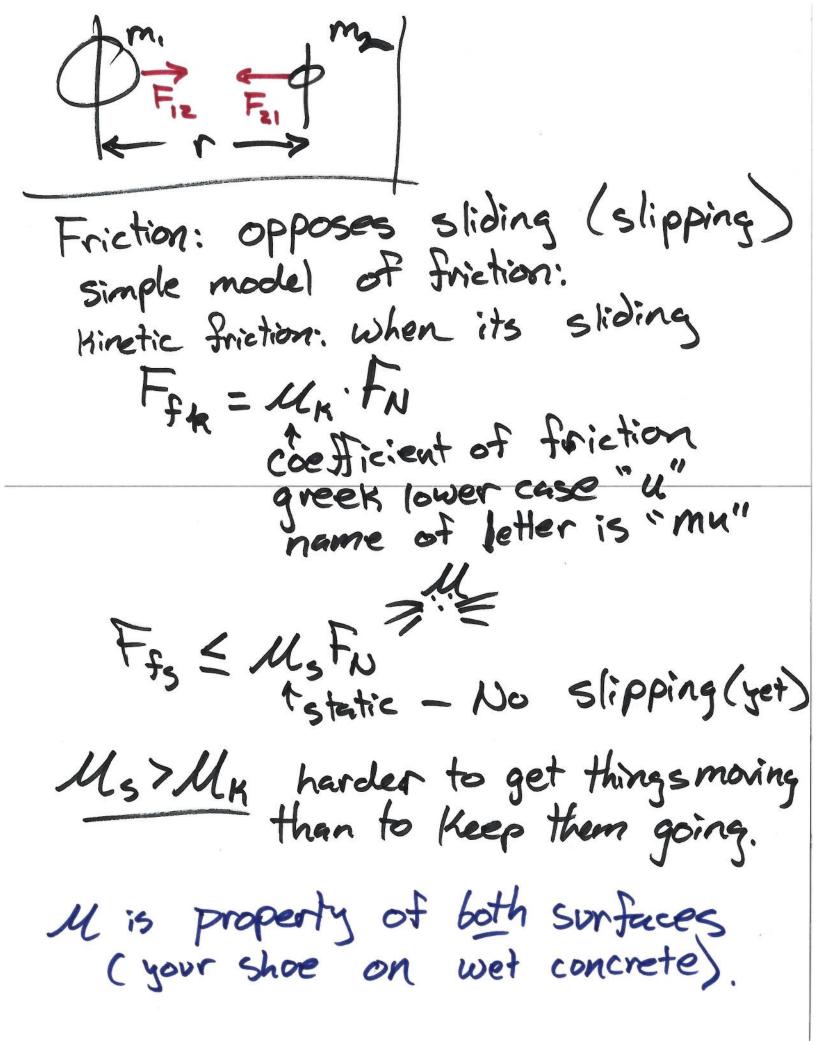
Physics 200 Jay#6 Forces Quiz 1.0? Topic? Sept 18t3 Newton's Laws 5 vector add/conversion 3 1-D const. accel.

18 2-D projectile motion Wed 20th Monday 25th mand Wed. 27th 0 [Forces] are vectors act between two objects feels like a push or Pull can be long range (gravity, magnetic) or contact (friction air resistance many types Newton's Laws: (3) 1. Velocity is constant. Unless acted on by external force. 2. IF = max of mass m Sum of all forces acting on mass m

3. Fon A = - Fon B due to B due to A Units: mass: kilogram (kg) = 1000 grams force: Newton (N) = kgm2 The "SI" unit system also called: mks A meter kilogram second Amp st order of minute-ness = 50th hours = the minute 2nd order of minute-ness = 10.60 hour = Second List of forces gravity, near Earth Fg=mg down" Gravity, universal, FG=Gm,m2 G=6.7×10" Normal force, FN just big enough Right to prevent one solid moving into another solid.

Perpendicular to surface.



air resistance

Fair = -b V

rolling friction is (generally) small

Ff = Ur FN

small... beet depends on conditions

U has no units.