Copying Is Not Allowed HW 5.2 Friction	Per Name EE BODY DIAGRAMS!!!! And WRITE NET FORCE EQUATIONS And SHOW YOUR	
1. A 60 kg gazelle slide	with a CONSTANT SPEED of 0.8 m/s under the action of the force as shown in the picture. What is at is the force of friction? What is the coefficient of kinetic friction between the gazelle and the floor?	
FBD:	ΣF_x : ΣF_y :	
friction can provide if	ch has a weight of 400 N is resting on the floor. (a) What is the maximum force that static he coefficient of static friction (μ_s) is 0.5? (b) If you push with a horizontal force 100 N greater than will be the acceleration of the crate? ($\mu_k = 0.35$)	I
FBD:	ΣF_x : ΣF_y :	
on top of her car. The husband cooked dinn	rtune 500 company has had a bad day and she realizes that she left the 20 kg baby gazelle in its car searching quickly, she notices that the car's speed is 27.7 m/s. She remembers waxing the car as her realized the day before. Since the car has a nice wax job, the coefficient of static friction is 0.15. As she calculates the minimum stopping distance. What answer does she get?	ıt
FBD:	ΣF_x : ΣF_y :	

4. When you go to college you need to move a box of books (about gazelles) into your dorm room. To do so, you attach a rope to the box and pull on it with a force of 100 N. The box of books has a mass of 20 kg, and the coefficient of kinetic friction between the bottom of the box and the hallway surface is 0.5. What is the normal force? What is the frictional force? What is the net force in the X direction? What is the acceleration of the box?

FBD:	ΣF_x : ΣF_y :			100 N

5. A 60 kg gazelle slides under the action of the force as shown. What is the normal force? What is the force of friction if μ_k is 0.2? What is the acceleration of the gazelle?

