Description	Free body diagram (label only <u>forces</u> acting on the object; velocity is NOT a force!!!!!) (possible forces include weight, normal force, friction, tension, air resistance)	Is the object accelerating?
1.Your textbook is sitting at rest on a level table		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
2.A satellite in empty space is moving at a constant velocity of30,000 mi/h in a straight line		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
3.A hockey puck is sliding to the right on frictionless ice at a constant velocity of 2 m/s		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
4.A sled is dragged horizontally to the right at a constant velocity through the snow		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
5.A baseball player is sliding on the dirt to the right and coming to a stop		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
6.A baseball is thrown into the air and the ball is in the middle of flight (neglect air resistance)		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
7.A skydiver is descending with a constant velocity of 40 mi/h with her parachute opened		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
8. A sled is dragged through wet snow (there is friction) to the right; the sled is accelerating at a rate of 1.0 m/s ²		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
9.A person is standing on the floor of an elevator while the elevator is moving up at a constant velocity of 2m/s		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating
 10. A person is standing on the floor of an elevator while the elevator accelerates up at a constant rate of 0.5 m/s² 		 This object <i>IS</i> accelerating This object is <i>NOT</i> accelerating

