## IF1 - System Schema and Free Body Diagrams - B

Directions: For each situation  (a) draw a system schema diagram  (b) draw a quality FBD for the object in bold
1) A <b>child on a sled</b> is sliding down a snowy hill that slopes downward to the right. There is friction, but the speed of the child and sled is increasing.
2) An employee is pushing horizontally on a <b>desk</b> , and the desk is sliding at a constant velocity across the carpet.
3) A <b>box</b> is sliding down a ramp with a constant speed. The ramp slopes downward to the left.