

9. A college student rests a backpack upon his shoulder. The pack is suspended motionless by one strap from one shoulder. A free-body diagram for the backpack in this situation looks like this:

10. A skydiver is descending with a constant velocity. Consider air resistance. A free-body diagram for this situation looks like this:

11. A force is applied to the right to drag a sled across loosely-packed snow with a rightward acceleration. A free-body diagram for this situation looks like this:

12. A car is coasting to the right and slowing down. A free-body diagram for this situation looks like this: