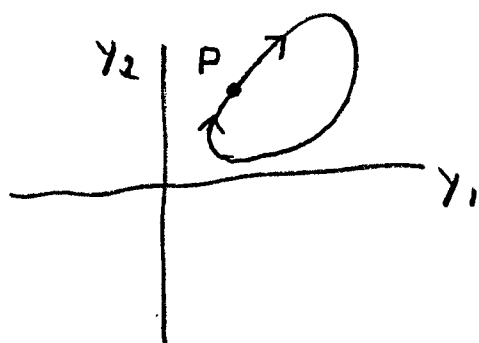


However, suppose a trajectory joins itself like this:



The trajectory starts at P , and when it gets back to P it must trace the same path as before since the marching orders depend only on \vec{y} . Therefore the trajectory is periodic.