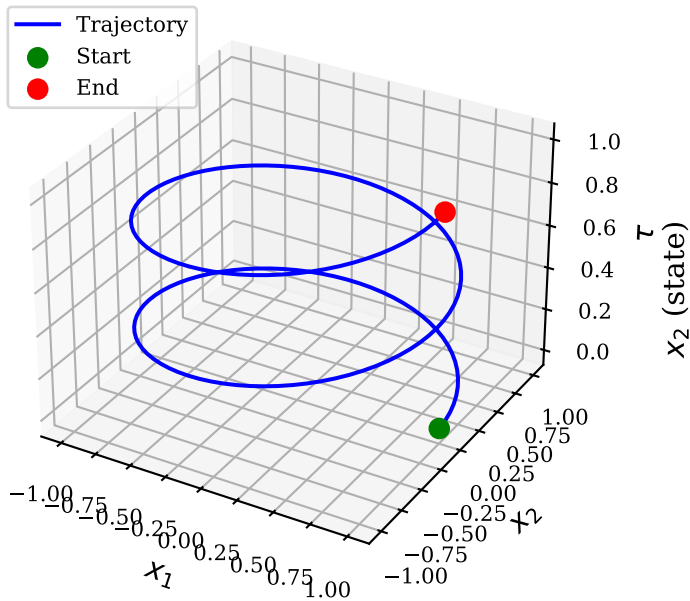
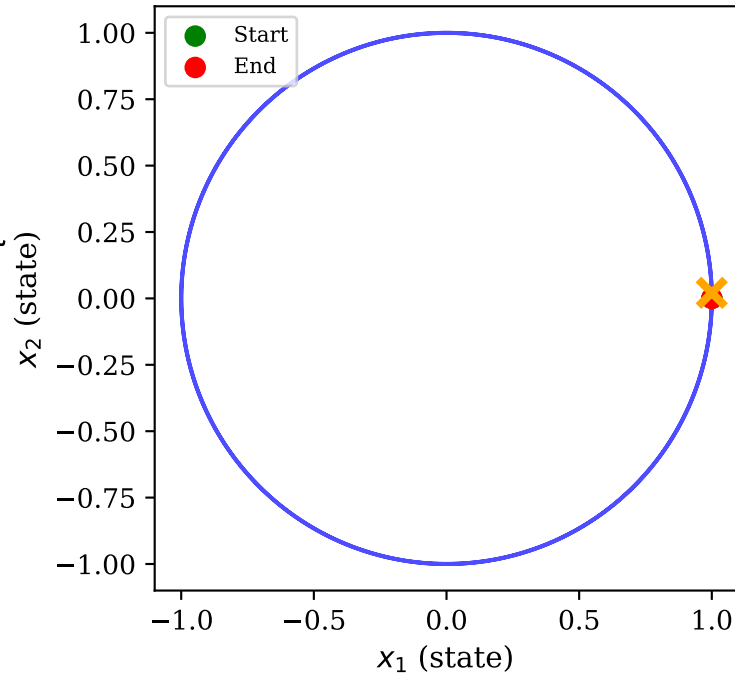


(A)  $k = 3$ : Collision-free



(B)  $k = 2$ : Collisions (orange X)



(C) Collisions vs. dimension

