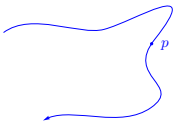
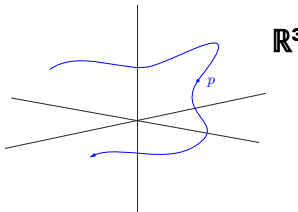
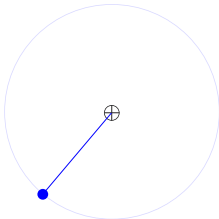
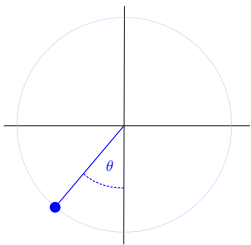
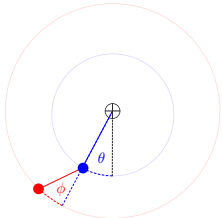
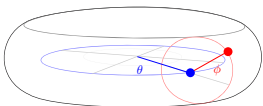
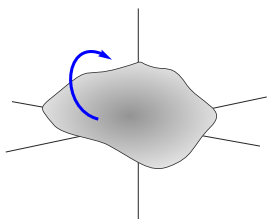
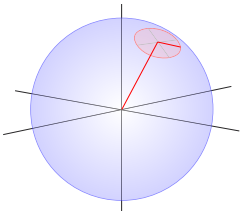
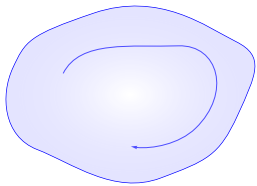
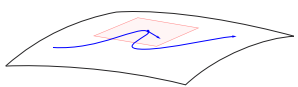


	Physical System	Configuration space
Classical particle		 \mathbb{R}^3
Single pendulum		 S^1
Double pendulum		 $S^1 \times S^1$
Euler top		 S^3
Ideal Euler fluid		 $\text{Iso}(\mathbb{R}^3)$