

HW5

- 1) Find the evolution $\varphi_t(T_q^* \mathbb{R})$
and intersection points $\varphi_t(T_q^* \mathbb{R}) \cap T_q^* \mathbb{R}$
for harmonic oscillator

$$H(p, q) = \frac{p^2}{2} + a \frac{q^2}{2}, \quad a > 0$$

- 2) Do HW1 - HW5 from Lecture Notes 5