[mex197] Generating a pure Galilei transformation

Demonstrate the canonicity in phase space of a pure Galilei transformation,

$$\mathbf{R} = \mathbf{r} + \mathbf{v}t$$
 with $\mathbf{v} = \text{const.}$

Find the generating function $F_2(\mathbf{r}, \mathbf{P}, t)$.

Solution: