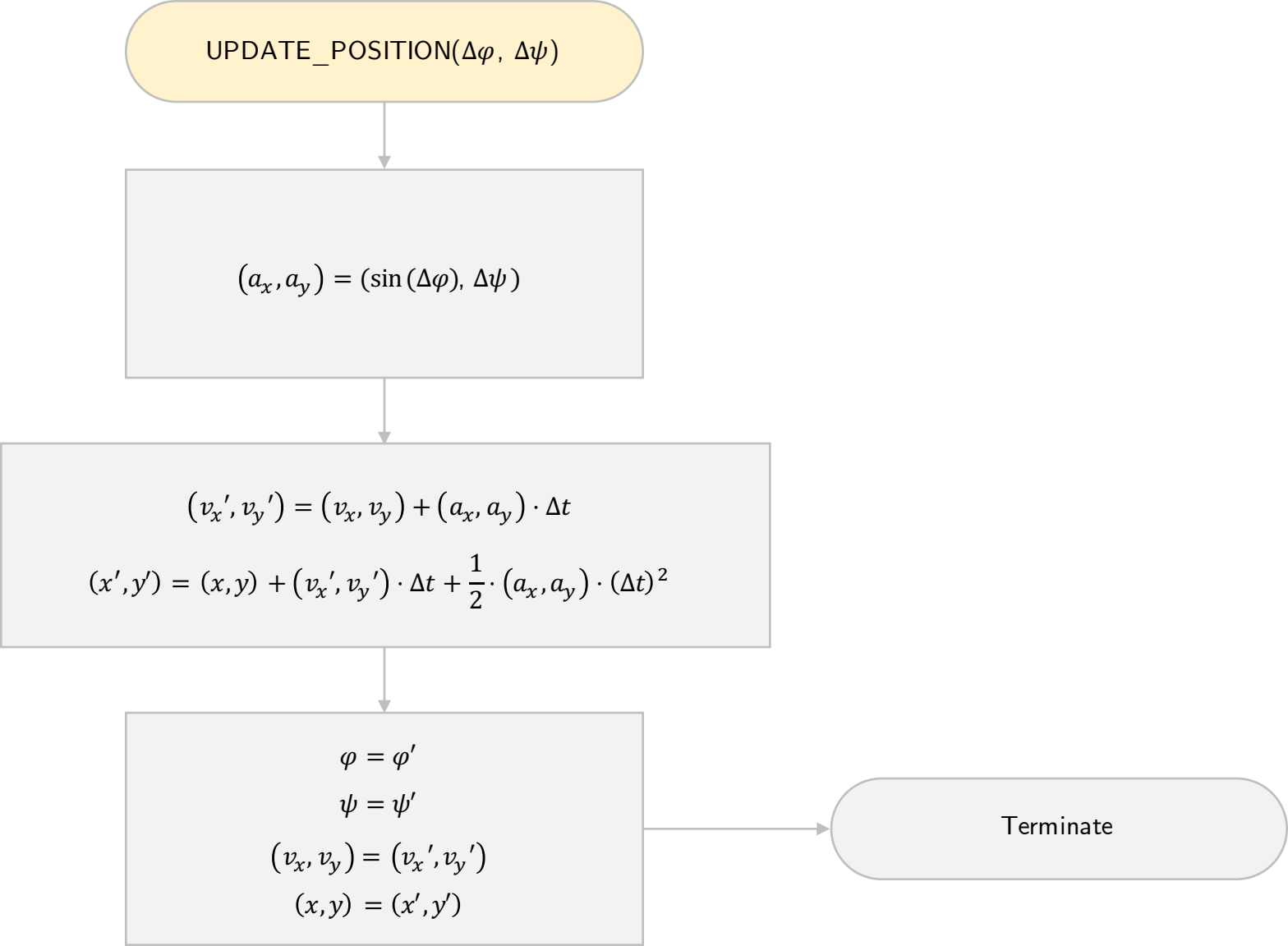
UPDATE_POSITION($\Delta\varphi$, $\Delta\psi$)
$(a_x, a_y) = (\sin(\Delta\varphi), \Delta\psi)$
$(v_x', v_y') = (v_x, v_y) + (a_x, a_y) \cdot \Delta t$
$(x', y') = (x, y) + (v_x', v_y') \cdot \Delta t + \frac{1}{2} \cdot (a_x, a_y) \cdot (\Delta t)^2$
$\varphi = \varphi'$
$\psi = \psi'$
$(v_x, v_y) = (v_x', v_y')$
$(x, y) = (x', y')$
Terminate