Name(s) November 25, 2024

Debug session

$$\cos(\omega t)\hat{x} + \frac{\sin(\omega t)\hat{p}}{\omega}$$

$$-\omega \sin(\omega t)\hat{x} + \cos(\omega t)\hat{p}$$

$$\left(\hat{x}^2, \frac{i\frac{d}{dt}\rho(t)}{2\rho(t)}\right)$$

$$\left(\hat{p}\hat{x} + \hat{x}\hat{p}, -\frac{i\log(\rho(t))}{2}\right)$$

$$-\frac{\omega^2 \sin^2(\omega t)}{2} + \frac{\omega^2 \cos^2(\omega t)}{2} - i\omega \sin(\omega t)\cos(\omega t)$$
(1)