$$\mu \sqrt{\mu - 4v_{AP}} + 1 = \frac{i\mu}{2\hat{\sigma}_x}$$

$$= -i\mu$$

$$= -i$$

$$\omega = -\frac{1}{4} + \frac{1}{2i\mu} = -\frac{1}{4} + \frac{16\pi}{2\mu}$$

$$= \exp\left(\left[\frac{-i\hat{o}_{x}}{2\mu} + \frac{1}{4}\right]\left(\frac{\hat{f}}{\hat{o}_{x}}\right)^{2}\right)$$

$$= \exp\left(\frac{-i\hat{\Lambda}^2}{2\mu\hat{\sigma}_x} + \frac{\hat{\Lambda}^2}{4\hat{\sigma}_x^2}\right)$$