5.5 c
$$\sqrt{\mu - \delta v/2\rho} + \frac{1}{\mu} = \pm \frac{i}{2\delta x}$$

$$\mu \sqrt{\mu - \delta v/2\rho} + 1 = \frac{i\mu}{2\delta x}$$

$$-\mu \sqrt{\mu - \delta v/2\rho}$$

$$\omega = 4(\mu \sqrt{\mu - \delta v/2\rho} + 1)$$

$$\frac{-i\mu}{2\delta_x} + \frac{-i\mu}{2\delta_x} + \frac{\delta_x}{2i\mu}$$

$$\frac{2i\mu}{\delta_x}$$

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

$$A_{\infty} = \exp \left(\omega R^{2} \right)$$

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

$$= \exp \left(-i \hat{A}^{2} + \hat{A}^{2} \right)$$

$$= \exp \left(-i \hat{A}^{2} + \hat{A}^{2} \right)$$