3-5

(a)

$$\gamma(x,t) = e^{\frac{1}{t}} \gamma(x,0) = \frac{1}{\sqrt{8\pi}} e^{\frac{-\frac{N^2}{t}}{t}} \left(e^{-\frac{N^2}{t}}\right)$$

$$+ \frac{1}{\sqrt{8\pi}} e^{\frac{-\frac{N^2}{t}}{t}} \left(1 - 2n^2\right) e^{-\frac{N^2}{t}}$$

$$- \frac{1}{\sqrt{8\pi}} e^{\frac{N^2}{t}} \left(1 - 2n^2\right) e^{\frac{N^2}{t}}$$

$$- \frac{1}{\sqrt{8\pi}} e^{\frac{N^2}{t}} \left(1 - 2n^2\right) e^{\frac{N^2}{t}}$$

$$- \frac{1}{\sqrt{N^2}} e^{\frac{N^2}{t}} e^{\frac{N^2}{t}} \left(1 - 2n^2\right) e^{\frac{N^2}{t}}$$

$$- \frac{1}{\sqrt{N^2}} e^{\frac{N^2}{t}} e^{\frac{N^2}{t}}$$

$$- \frac{1}{\sqrt{N^2}} e^{\frac{N^2}{t}} e^{\frac{N^2}{t}}$$

$$- \frac{1}{$$

$$\frac{1}{\sqrt{(x,t)}} = \frac{1}{\sqrt{2}} \frac{e^{-\frac{1}{2}k}}{\sqrt{(x)}} \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} e^{-\frac{5}{2}k} \frac{1}{\sqrt{2}} \frac{1}{$$

$$\frac{1}{\sqrt{\frac{1}{N}}} = \frac{1}{2} \left(-\frac{1}{1} \right) \times e^{-\frac{\pi^{2}}{2}} + \frac{-\frac{4\pi}{1}t}{2\pi} + \frac{2}{2\pi} + \frac{2}{2\pi} + \frac{2\pi}{2\pi} + \frac{2\pi}{2$$

