Exercise 3.46 dinsdag 8 september 2020 22:54 $\Psi(x,t) = \frac{1}{\sqrt{2\pi t}} \int_{-\theta}^{\theta} e^{ipx/t} \int_{-\theta}^{t} (p,t) dp$ $\langle x \rangle = \int_{-\infty}^{\infty} \frac{1}{\sqrt{2\pi R^2}} \int_{-\infty}^{\infty} e^{-ip'x/R} \int_{-\infty}^{$ $-\int_{-\infty}^{\infty} \frac{1}{\sqrt{2\pi p^2}} \int_{-\infty}^{\infty} e^{-ip^2 x/\hbar} \int_{-\infty}^{\infty} (p,t) dp \int_{-\infty}^{\infty} x e^{ipx/\hbar} \int_{-\infty}^{\infty} (p,t) dp dx$ $=\int_{-\infty}^{\infty}\int_{-\infty}^{\infty}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x}\int_{-\infty}^{\infty}e^{-ip^{2}x$ scan (1) Please wait while OneNote loads this printout... Please wait while OneNote loads this printout...