

R-space $\xrightarrow{\mathcal{F}}$ k-space

a) $\Pi(x) \Pi(y) \quad \text{sinc}(k_x) \text{sinc}(k_y)$

b) $\Pi(r_1) - \Pi(r_2) \quad \text{jinc}(\rho_{k1}) - \text{jinc}(\rho_{k2})$

c) $\Pi(x_1) \Pi(y_1) - \Pi(x_2) \Pi(y_2) \quad \text{sinc}(k_{x1}) \text{sinc}(k_{y1}) - \text{sinc}(k_{x2}) \text{sinc}(k_{y2})$

d) $\delta(x-x_1, y) + \delta(x-x_2, y) \quad e^{-i2\pi(k_x x_1)} + e^{-i2\pi(k_x x_2)}$

e) $\delta(x-x_1, y_1) + \delta(x-x_2, y_2) \quad e^{-i2\pi(k_x x_1 + k_y y_1)} + e^{-i2\pi(k_x x_2 + k_y y_2)}$

f) $\cos(2\pi k_0 x) + \cos(2\pi k_0 y) \quad \frac{1}{2} \left[\delta(k_x - k_0, k_y - k_0) + \delta(k_x - k_0, k_y + k_0) + \delta(k_x + k_0, k_y - k_0) + \delta(k_x + k_0, k_y + k_0) \right]$