H2.1

b) 
$$F[f(x-a)](v) = e^{-i2\pi i a} f[f](v)$$

$$F[f(x-a)](v) = \int_{-\infty}^{\infty} f(x-a)e^{-i2\pi i v} dx$$

$$= \int_{-\infty}^{\infty} f(b) e^{-2i\pi i v} (64a) d6$$

$$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty$$

$$= e^{-\lambda i \pi va} F(f)(v)$$

$$\begin{array}{lll}
(a) & \text{if } f(x) = e^{-i2\pi u} \cdot x \\
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$$\int_{-\infty}^{\infty} f(x) e^{-i2\pi i (v_0 + v_0)x} dx = \int_{-\infty}^{\infty} \left[ \int_{-\infty}^{\infty} \left( u + u_0 \right) \right]$$