SIFAT TRANSFORMASI FOURIER :

1. Time Shift

$$s(t - to) \xleftrightarrow{F} e^{j2\pi f t_o} S(f)$$

2. Frequency Shift

$$S(f - fo) \xleftrightarrow{F^{-1}} e^{j2\pi f_o t} s(t)$$

3. Linearitas

$$as_1(t) + bs_2(t) \xleftrightarrow{F} aS_1(f) + bS_2(f)$$

4. Teorema modulasi

$$s(t) \cos 2\pi f_o t \xleftrightarrow{F} \frac{1}{2} S(f - fo) + \frac{1}{2} S(f + fo)$$

5. Time Shift

$$s(at) \xleftrightarrow{F} \frac{1}{a} S(\frac{f}{a})$$

6. Frequency scaling

$$S(af) \xleftrightarrow{F^{-1}} \frac{1}{a} s(\frac{t}{a})$$