

$$v_{an} = \sqrt{2} \cdot \sin(\omega \cdot t)$$

$$\rightarrow \underline{V_{an}} = V_s$$

$$v_{bn} = \sqrt{2} \cdot \sin\left(\omega \cdot t - \frac{2\pi}{3}\right)$$

$$\rightarrow \underline{V_{bn}} = \underline{V_{an}} \cdot e^{-j\frac{2\pi}{3}}$$

$$v_{cn} = \sqrt{2} \cdot \sin\left(\omega \cdot t + \frac{2\pi}{3}\right)$$

$$\rightarrow \underline{V_{cn}} = \underline{V_{an}} \cdot e^{j\frac{2\pi}{3}}$$

