

The given line-line voltages are

$$V_{ab} = 173.2000 \angle 0.0000 \text{ V}$$

$$V_{bc} = 173.2000 \angle -120.0000 \text{ V}$$

$$V_{ca} = 173.2000 \angle 120.0000 \text{ V}$$

The line-neutral voltages are

$$V_{an} = 99.9993 \angle -30.0007 \text{ V}$$

$$V_{bn} = 99.9993 \angle -150.0007 \text{ V}$$

$$V_{cn} = 99.9993 \angle 89.9993 \text{ V}$$

$$\text{Load Impedance } Z_L = 10.0000 \angle 20.0000 \text{ ohms}$$

The resulting current in each phase

$$I_{an} = 9.9999 \angle -50.0007 \text{ A}$$

$$I_{bn} = 9.9999 \angle -170.0007 \text{ A}$$

$$I_{cn} = 9.9999 \angle 69.9993 \text{ A}$$