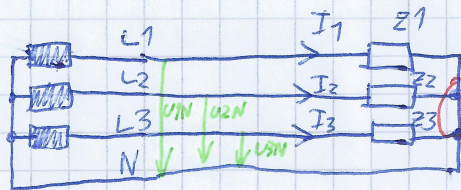
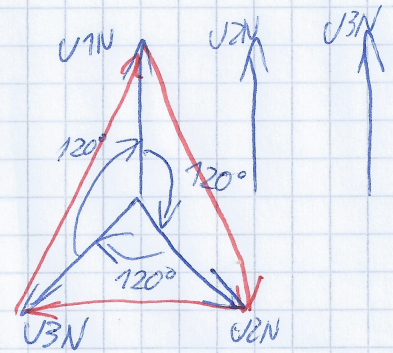
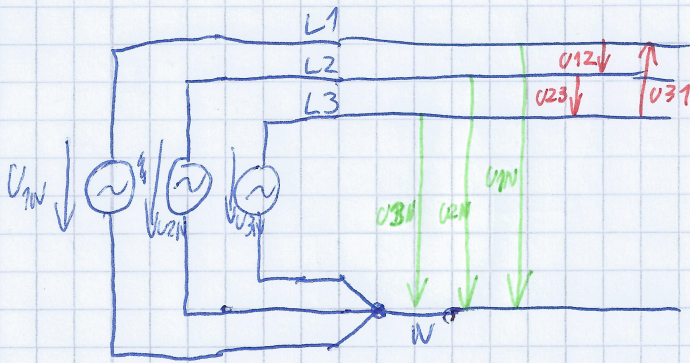


III/2 4-Leiter Versorgungsnetz



400/230V

$$I_1 + I_2 + I_3 + I_N = 0$$

• $Z_1 = Z_2 = Z_3$ (symmetrische Sternförmige Last)

$$|I_1| = |I_2| = |I_3|$$

$$\underline{I_1} + \underline{I_2} + \underline{I_3} + \underline{I_N} = 0$$

0 → 0

• $Z_1 \neq Z_2 = Z_3$ (unsymmetrische Sternförmige Last)

$$\underline{I_1} + \underline{I_2} + \underline{I_3} + \underline{I_N} = 0$$

≠ 0 → ≠ 0