1. **Phase voltages**

Positive sequence

Negative sequence

1. **Y-load:**

****

**Line voltages:**

Positive sequence

Negative sequence

1. **Load impedance:**
2. **Balanced Y-Y system:**



**Line currents:**

1. **Balanced Y- system:**



**Line currents:**

Turn the impedance load into a y one and then solve the following:



**Phase currents of the load:**

1. **Power in a balanced system**

**Y-load:**

****

1. **Average Power:**
2. **Reactive power:**
3. **Complex power:**

**Δ-load:**

**

1. **Average Power:**
2. **Reactive power:**
3. **Complex power:**
4. **Power loss**