

Transformer Connection Worksheet

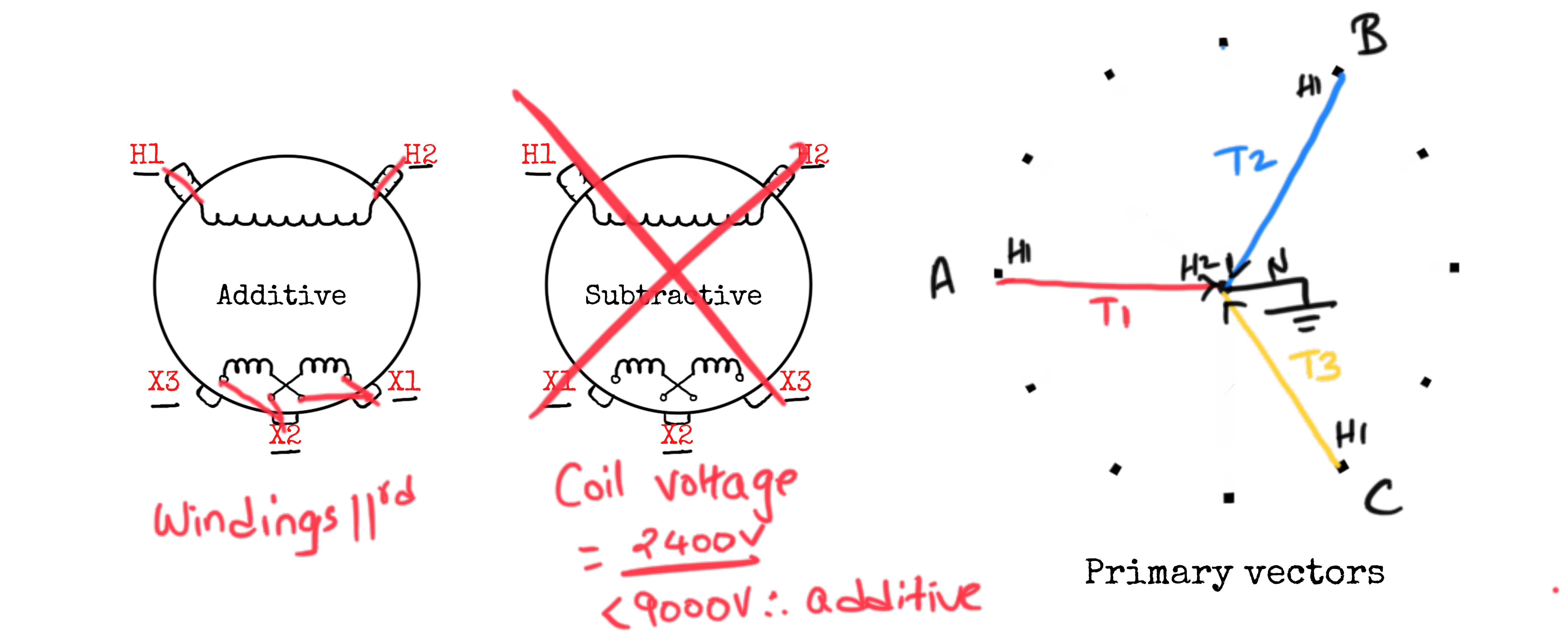
System Parameters

Primary system voltage: 4160V 3-phase 4-wire

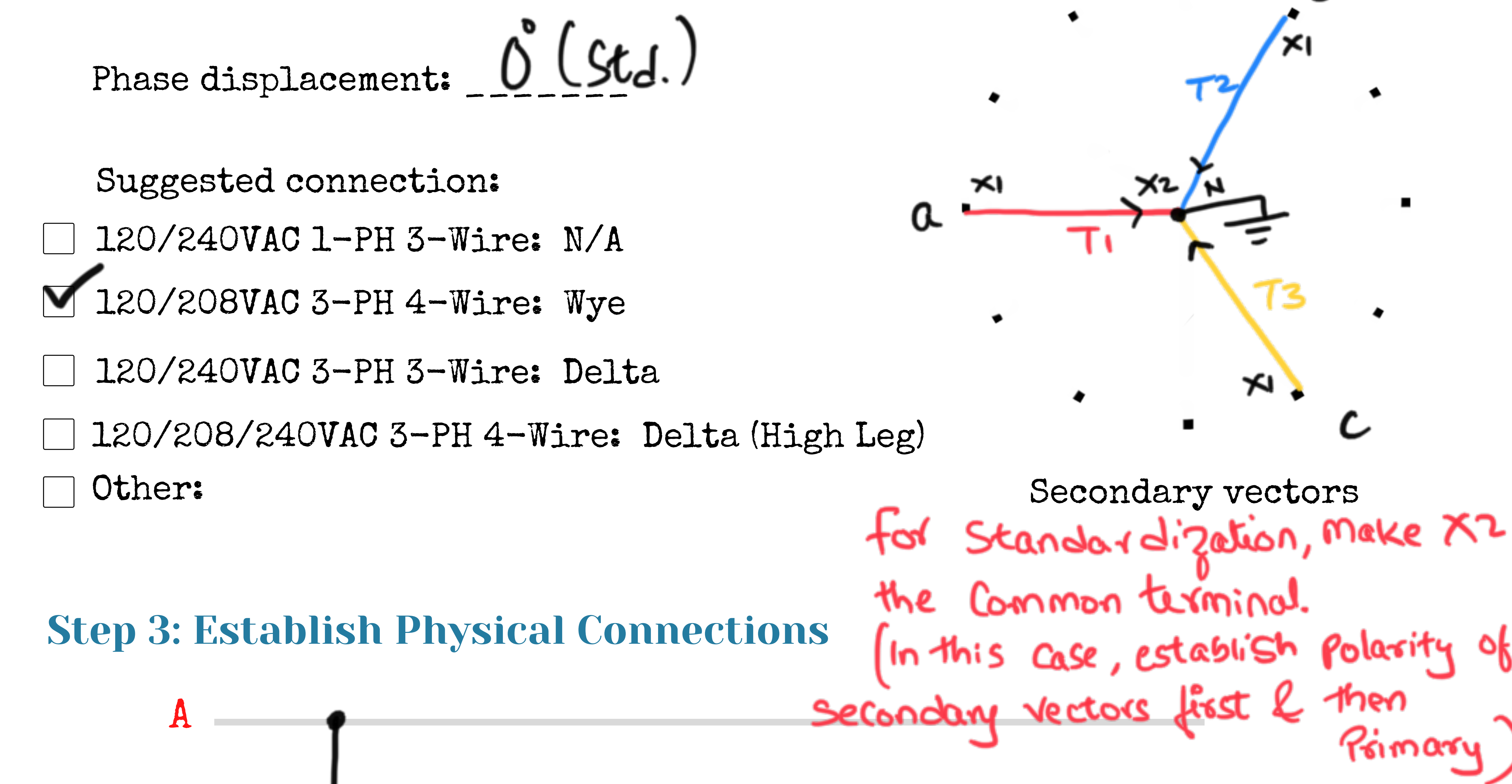
Load voltage requirement: 120/208V 3-phase 4-wire

Transformer rating: 2400/4160V - 120/240V, 25 kVA each

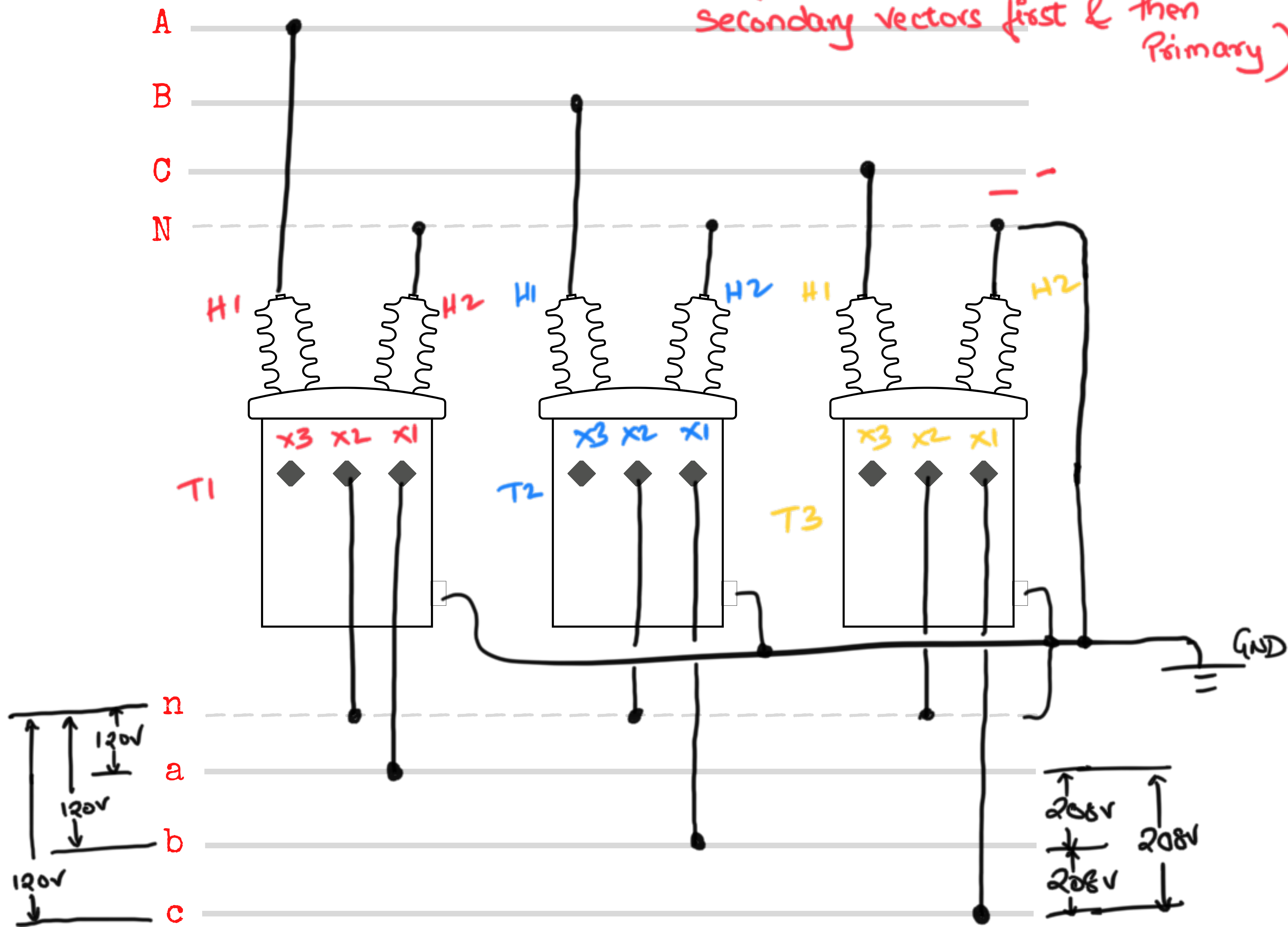
Step 1: Establish Internal Connections and Primary Vectors



Step 2: Establish Secondary Vectors



Step 3: Establish Physical Connections



Transformer Connection Worksheet

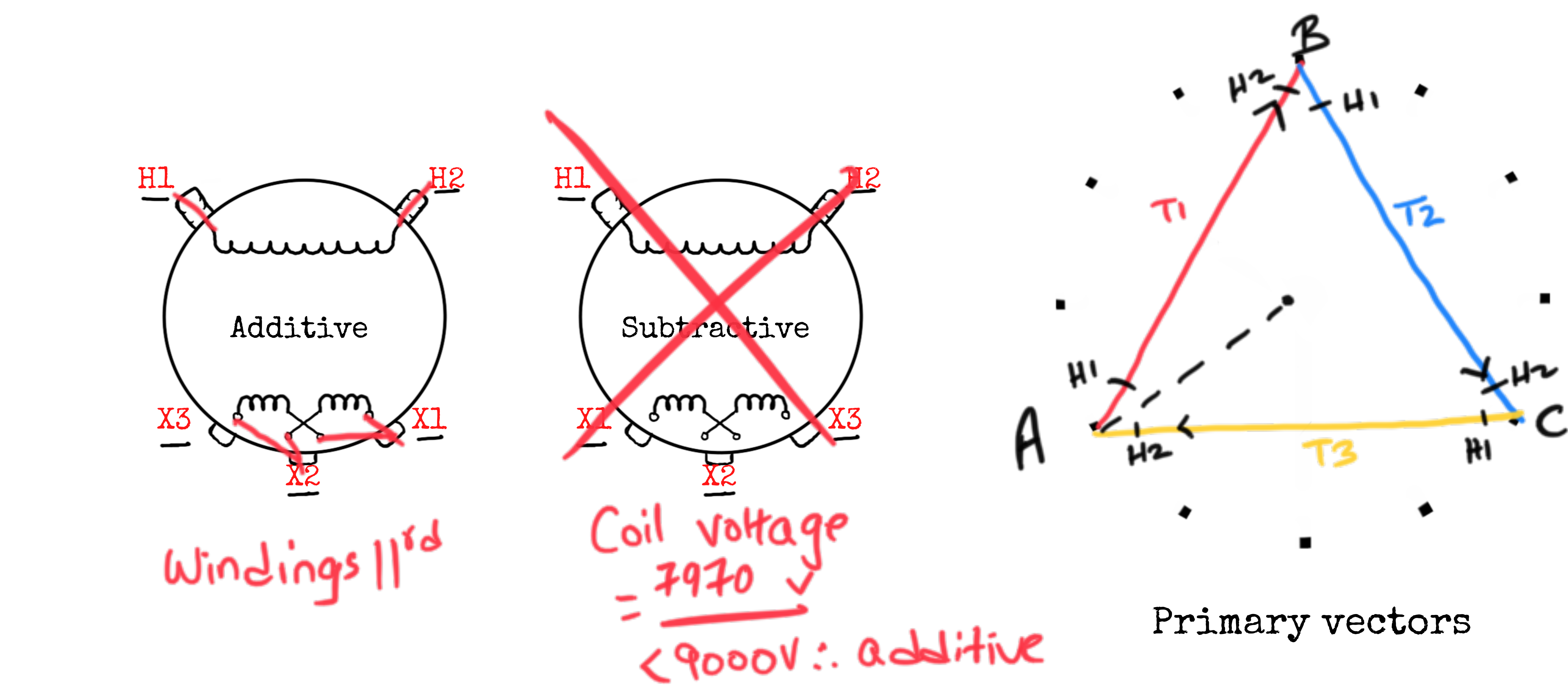
System Parameters

Primary system voltage: 7970/13800V 3-phase 4-wire

Load voltage requirement: 120/208V 3-phase 4-wire

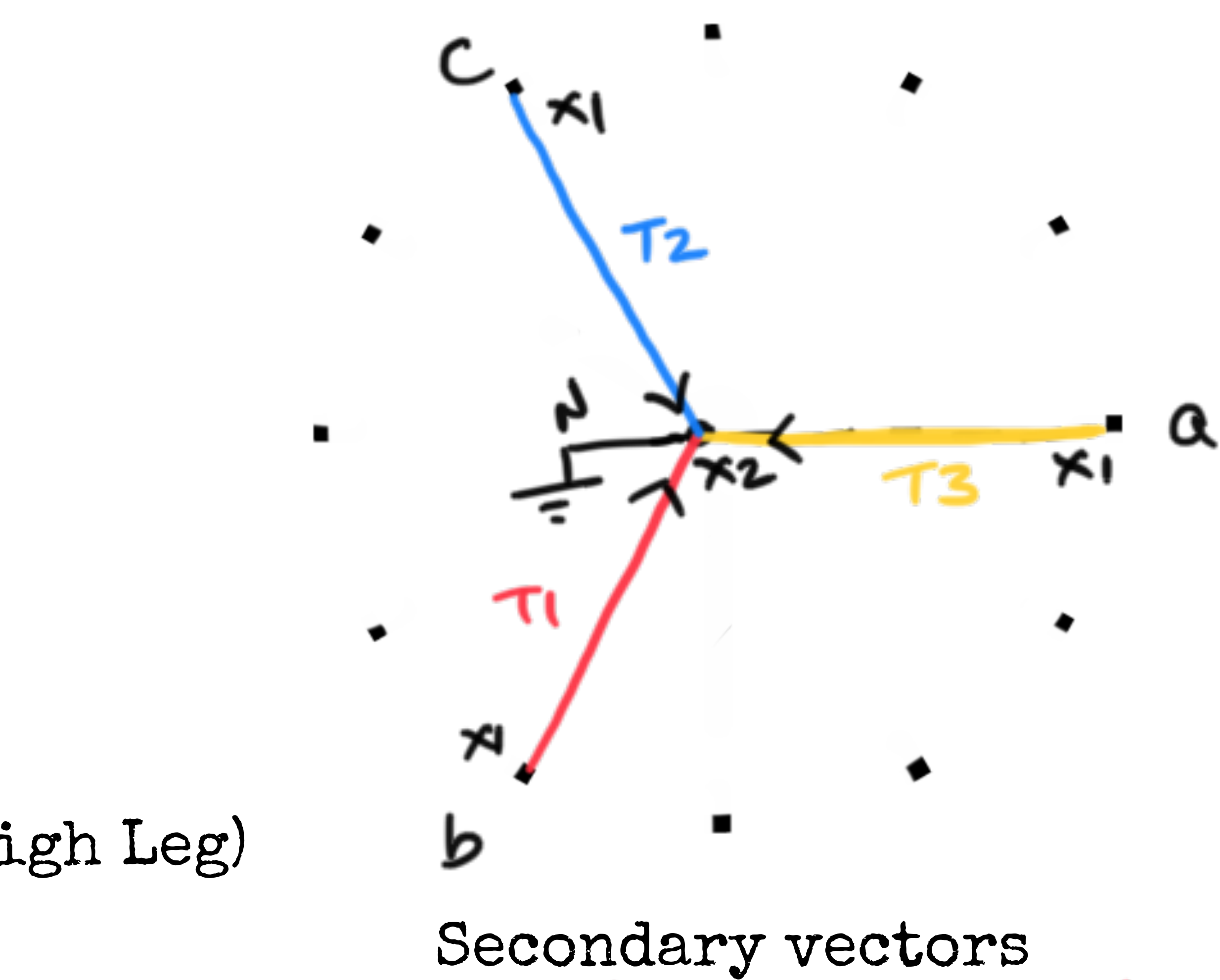
Transformer rating: 7970/13800Y - 120/240V, 50 kVA each

Step 1: Establish Internal Connections and Primary Vectors



Step 2: Establish Secondary Vectors

- Phase displacement: 210° (alternate)
- Suggested connection:
- ☐ 120/240VAC 1-PH 3-Wire: N/A
 - ☒ 120/208VAC 3-PH 4-Wire: Wye
 - ☐ 120/240VAC 3-PH 3-Wire: Delta
 - ☐ 120/208/240VAC 3-PH 4-Wire: Delta (High Leg)
 - ☐ Other:



Tip: - Combine X2's first & ground.
- Now at Primary vectors, follow same polarity direction.

Step 3: Establish Physical Connections

