Prob 4.17 (refer to class notes, Mon Jan 17th)

CT ratios:
Must reduce 2000 A down to ≤ 5 A

\[
\frac{I_1}{I_2} = \frac{2000}{5} = 400
\]

\[
\frac{N_1}{N_2} = \frac{1}{400}
\]

For PTs (should call them VTs now)

\[
V_{PRI} = V_{LN} = \frac{69,000}{\sqrt{3}} = 39,837 \text{ V}
\]

\[
V_{SEC} = 120 \text{ V (standard)}
\]

\[
\frac{N_{PRI}}{N_{SEC}} = \frac{V_{PRI}}{V_{SEC}} = \frac{39,837}{120} = 332:1
\]