An ideal transformer was designed to run an X-ray machine at a voltage of $50~kV_{rms}$ and $270~mA_{rms}$ current. The transformer operates from a 220-Vrms power supply. However, the resistance in the wires connecting the power supply to the transformer was initially ignored. Upon installation, it was realized that the supply wires have a total resistance of $0.6~\Omega$. By how much must the supply voltage be increased in order to maintain the same operating parameters at the transformer output?

Ideal Wont wire resistance
$$3I_2$$
 $220V_{AMS}$ $4V_1$ $4V_2$ $4V_3$ $4V_4$ $4V_5$ $4V_5$ $4V_6$ 4