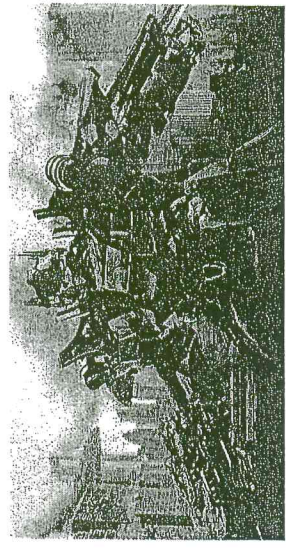


TRANSFORMER PRACTICE



- 1) If a transformer takes in 120 v and has 10 winds on the primary side and 20 winds on the secondary, what is the output voltage? $X = 240v$
- 2) If a transformer takes in 12 v in 50 winds on the primary side and outputs 120 v, how many winds are on the secondary side? $X = 500 \text{ turns}$
- 3) If a transformer outputs 9 v through 100 winds on the secondary side and takes in 45 v on the primary coil, how many winds are on the primary coil? $X = 500 \text{ turns}$
- 4) If a transformer outputs 20 v through 1000 winds on the secondary coil and has 200 winds on the primary coil, what voltage is input on the primary coil? $X = 4v$

$$\frac{\text{primary voltage}}{\text{number of primary turns}} = \frac{\text{secondary voltage}}{\text{number of secondary turns}}$$

$$\frac{V_p}{N_p} = \frac{V_s}{N_s}$$