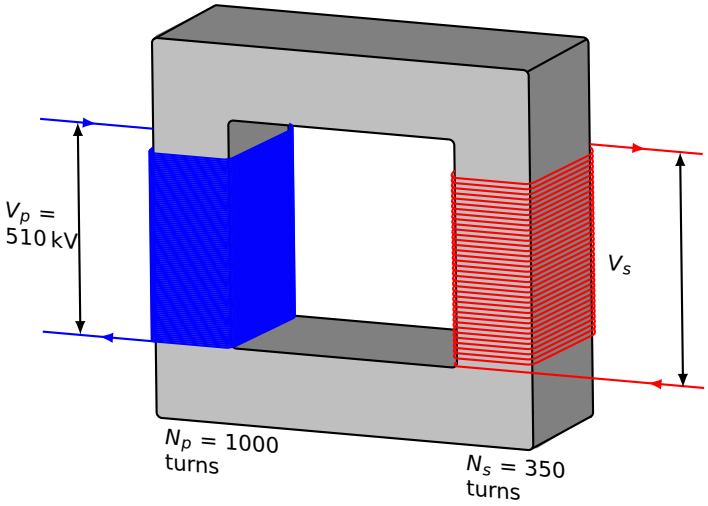
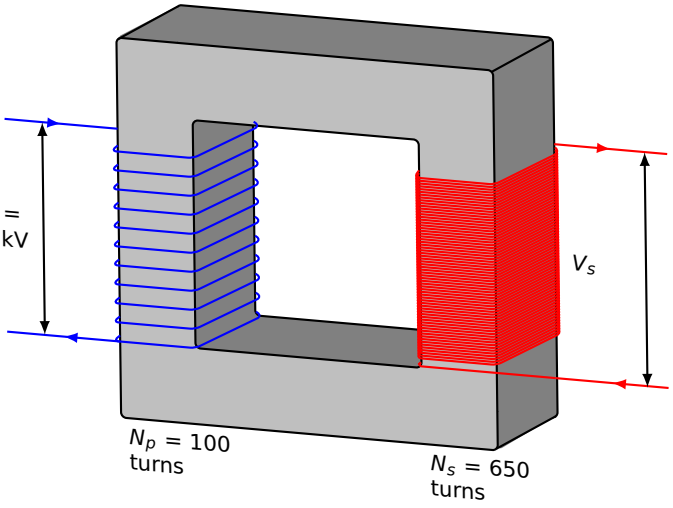
Calculate the potential difference across the primary, V_p or secondary coil V_s. The number of turns *drawn* on the diagram aren't accurate;

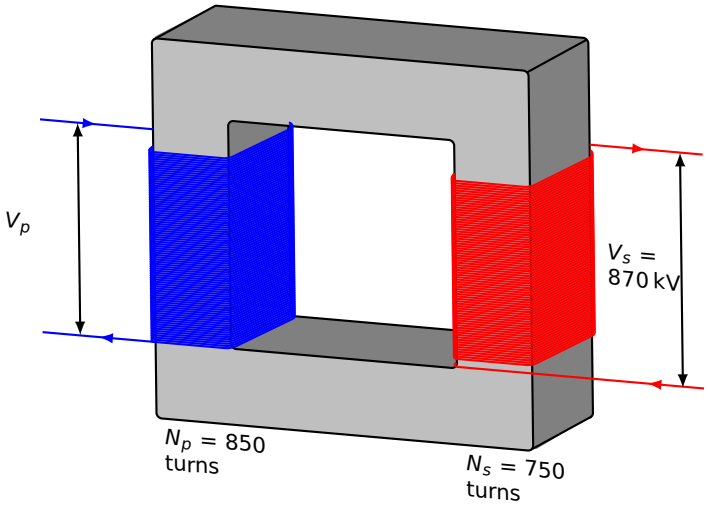
1)



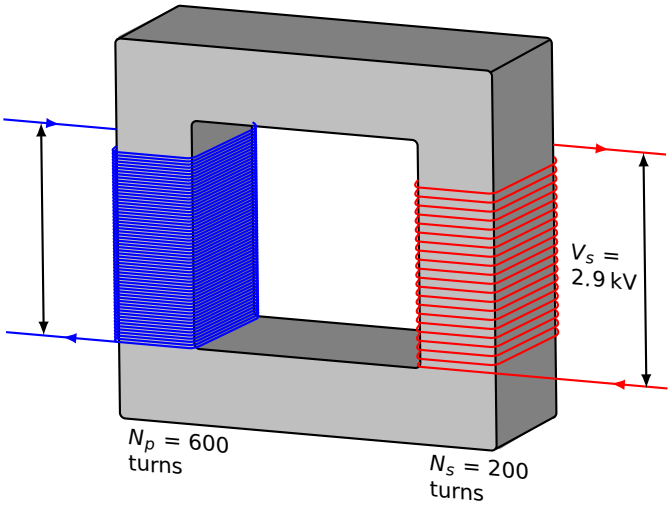
2)



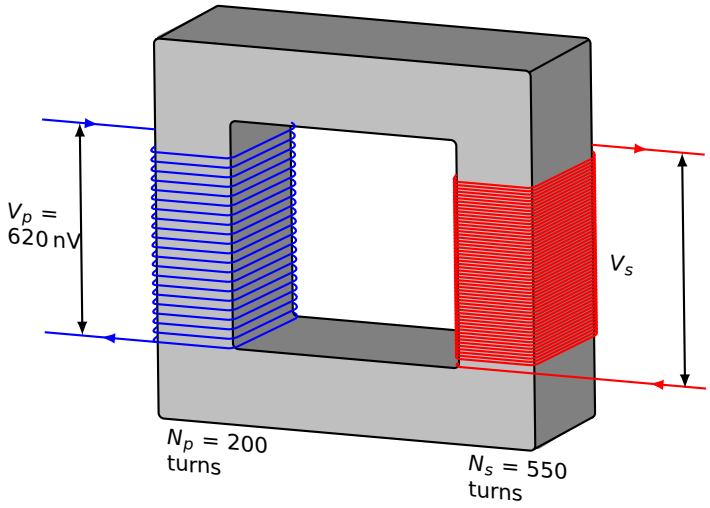
3)



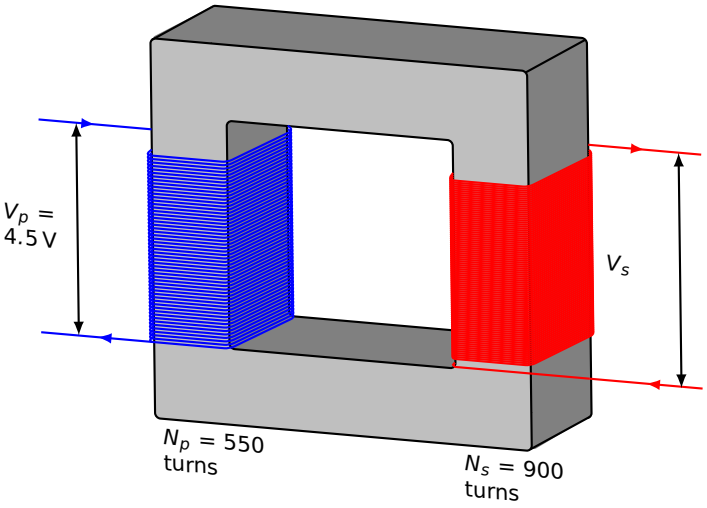
4)



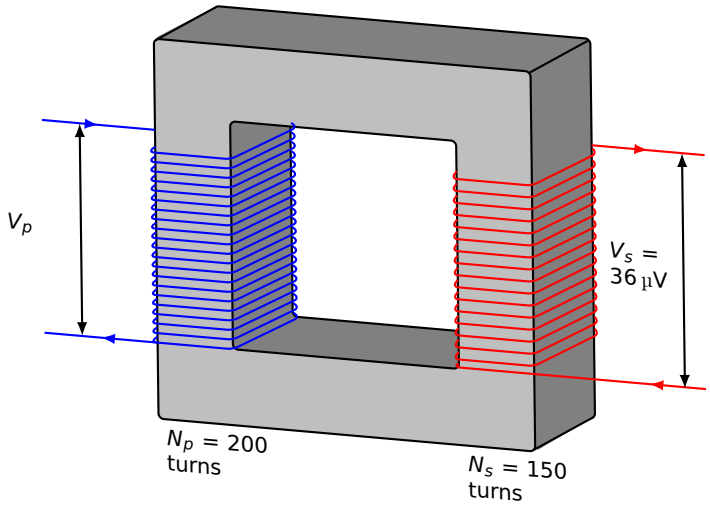
5)


V_p = 620 nV
V_s
N_p = 200 turns
N_s = 550 turns

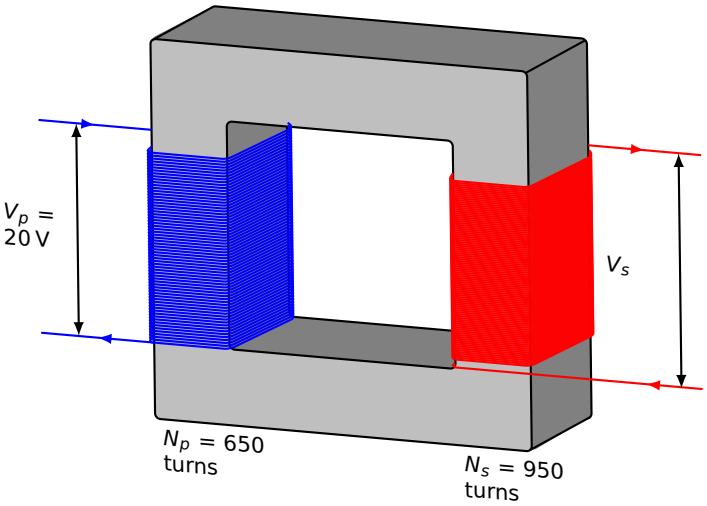
6)


V_p = 4.5 V
V_s
N_p = 550 turns
N_s = 900 turns

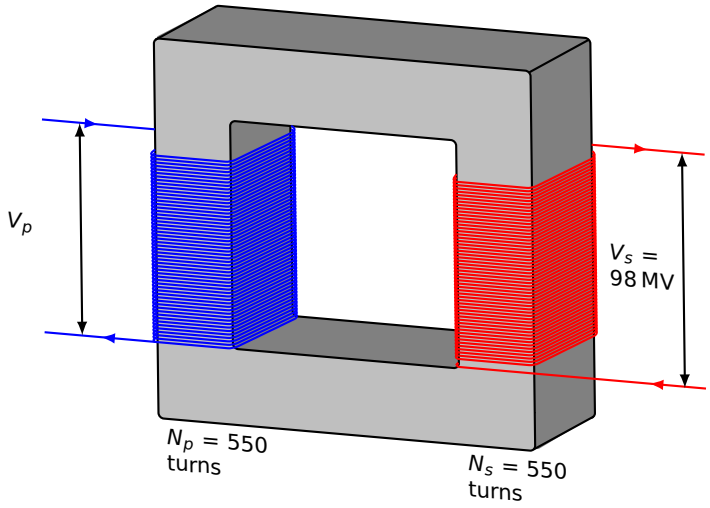
7)


V_p
V_s = 36 µV
N_p = 200 turns
N_s = 150 turns

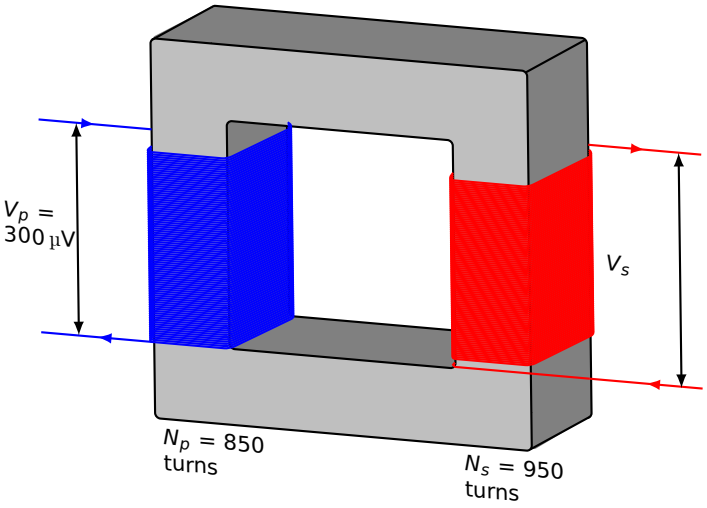
8)


V_p = 20 V
V_s
N_p = 650 turns
N_s = 950 turns

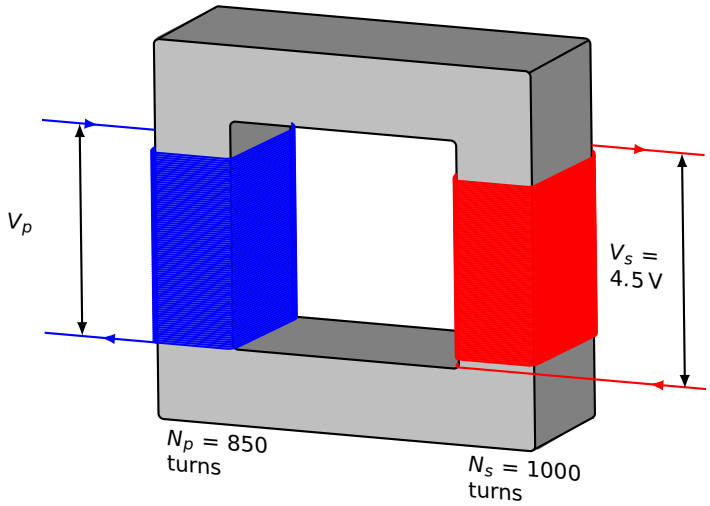
9)


V_p
V_s = 98 MV
N_p = 550 turns
N_s = 550 turns

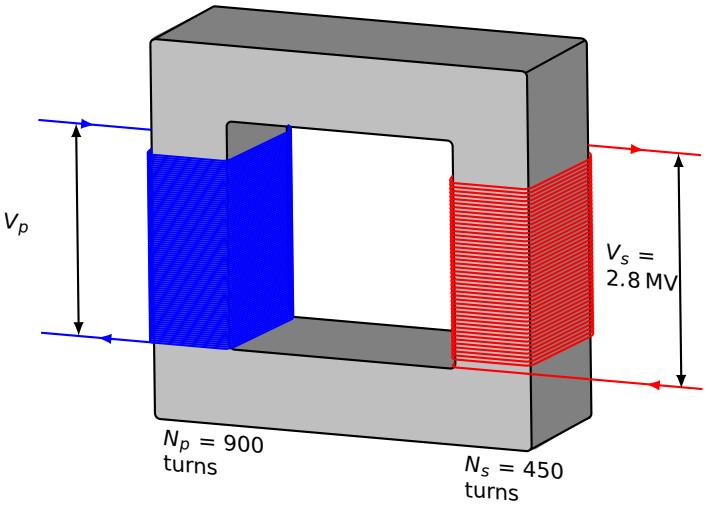
10)


V_p = 300 µV
V_s
N_p = 850 turns
N_s = 950 turns

11)


V_p
V_s = 4.5 V
N_p = 850 turns
N_s = 1000 turns

12)


V_p
V_s = 2.8 MV
N_p = 900 turns
N_s = 450 turns

Answers

1) $V_s = 180\,\text{kV}$
2) $V_s = 160\,\text{kV}$
3) $V_p = 990\,\text{kV}$
4) $V_p = 8.7\,\text{kV}$
5) $V_s = 1.7\,\mu\text{V}$
6) $V_s = 7.4\,\text{V}$
7) $V_p = 48\,\mu\text{V}$
8) $V_s = 29\,\text{V}$
9) $V_p = 98\,\text{MV}$
10) $V_s = 340\,\mu\text{V}$
11) $V_p = 3.8\,\text{V}$
12) $V_p = 5.5\,\text{MV}$