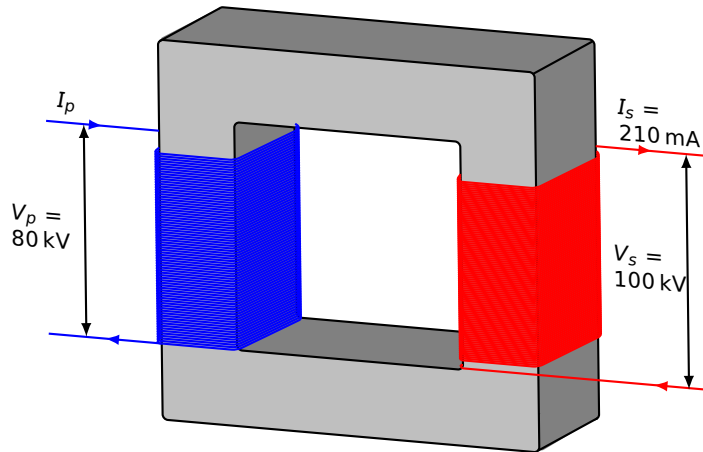
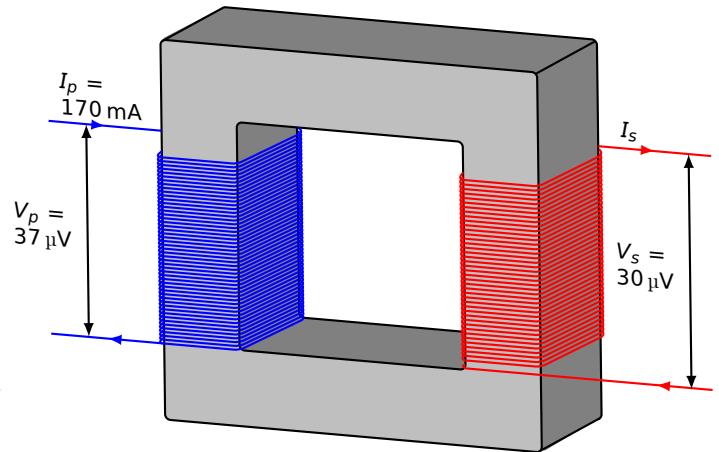


Calculate the potential difference across the primary, V_p or secondary coil V_s . The number of turns *drawn* on the diagram aren't accurate and assume the transformer is 100% efficient;

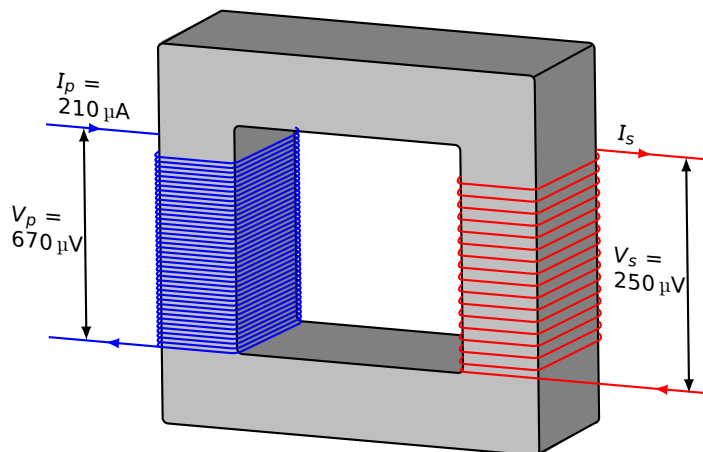
1)



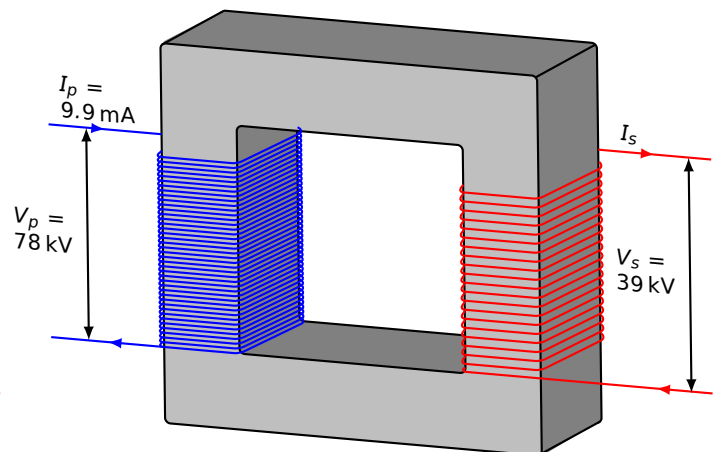
2)



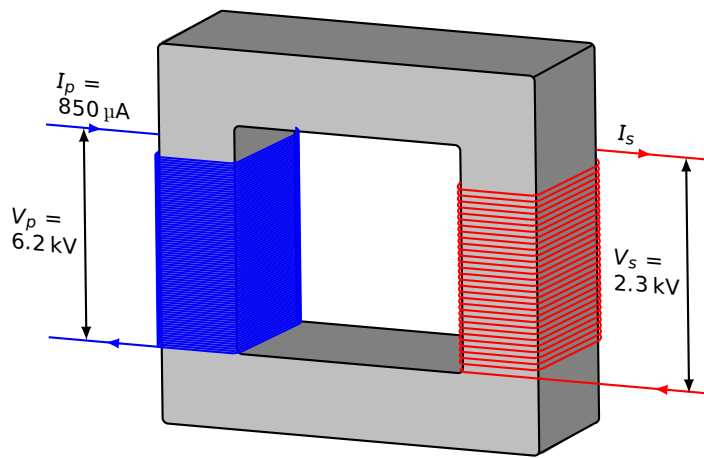
3)



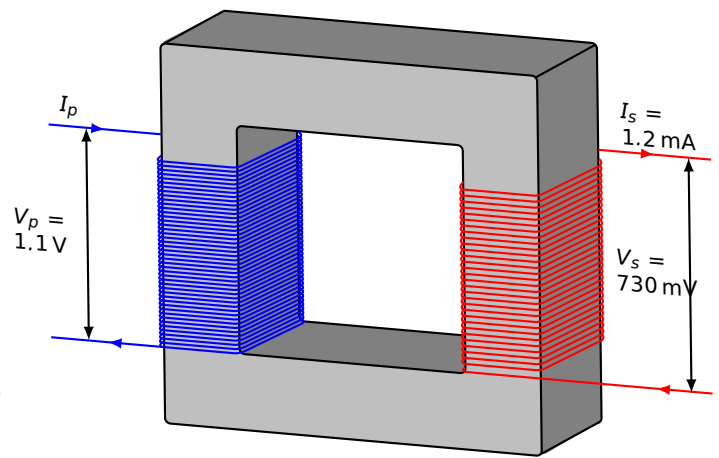
4)



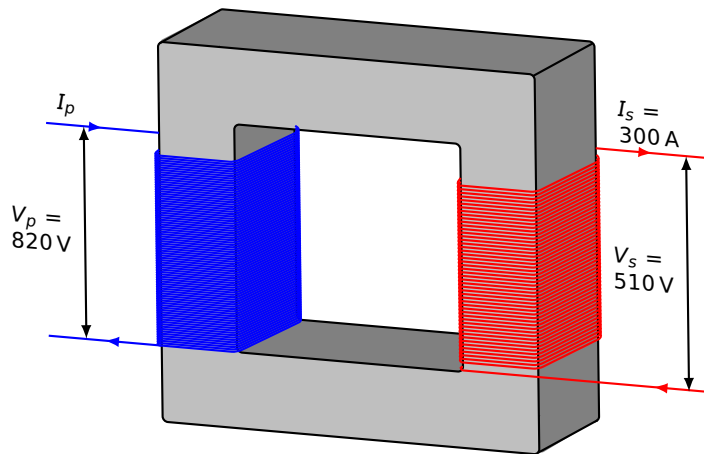
5)



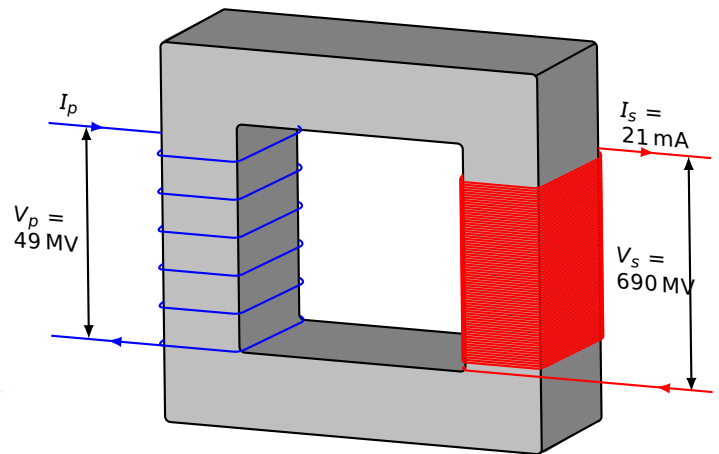
6)



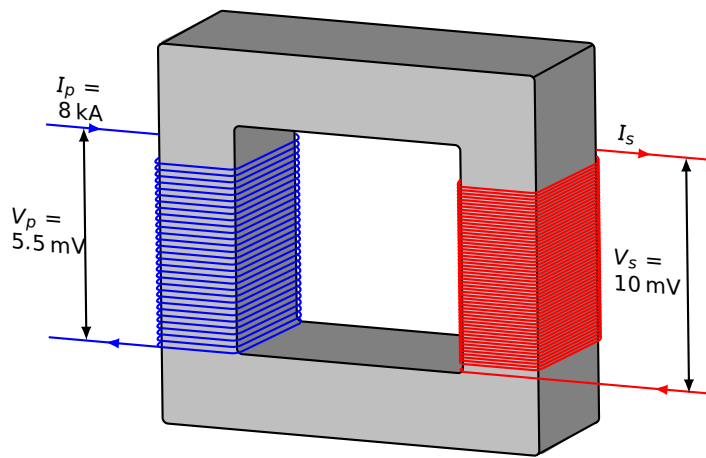
7)



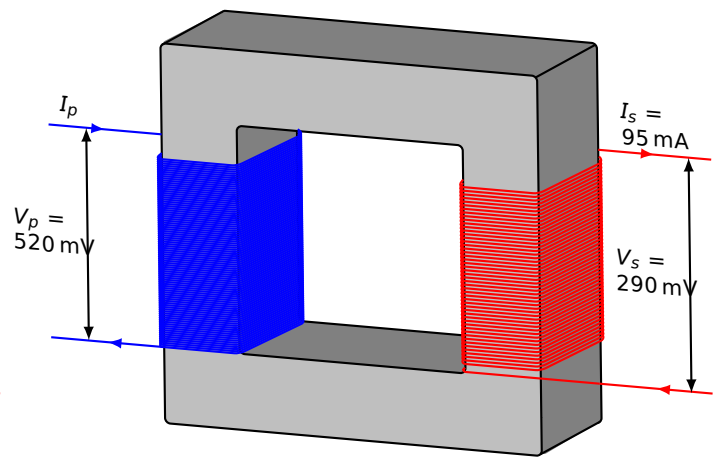
8)



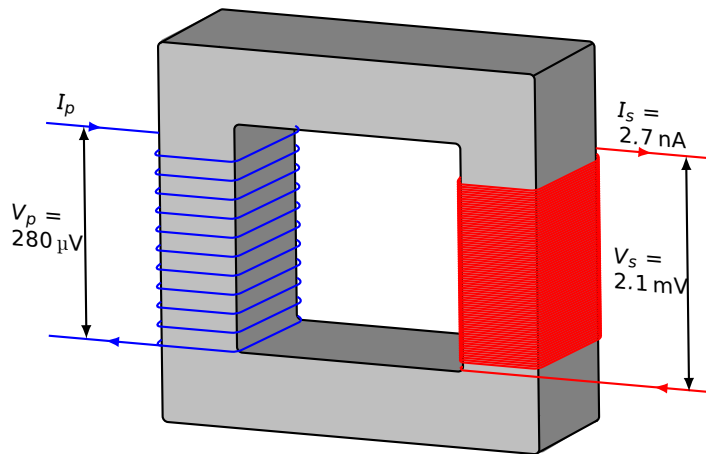
9)



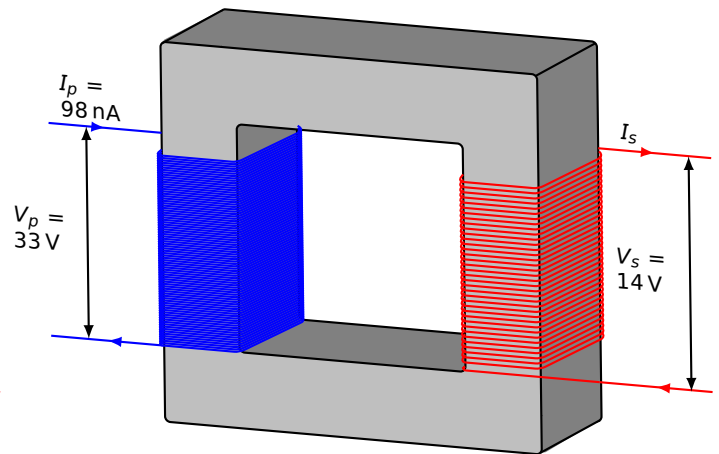
10)



11)



12)



Answers

- 1) $I_p = 260 \text{ mA}$
- 2) $I_s = 210 \text{ mA}$
- 3) $I_s = 560 \mu\text{A}$
- 4) $I_s = 20 \text{ mA}$
- 5) $I_s = 2.3 \text{ mA}$
- 6) $I_p = 820 \mu\text{A}$
- 7) $I_p = 190 \text{ A}$
- 8) $I_p = 300 \text{ mA}$
- 9) $I_s = 4.4 \text{ kA}$
- 10) $I_p = 53 \text{ mA}$
- 11) $I_p = 20 \text{ nA}$
- 12) $I_s = 220 \text{ nA}$