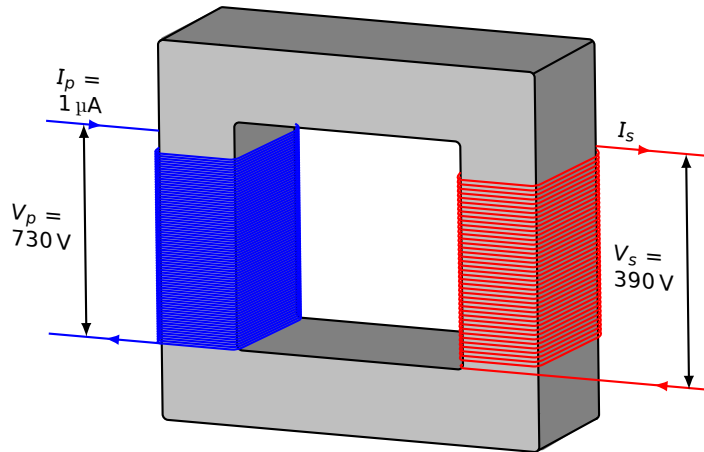
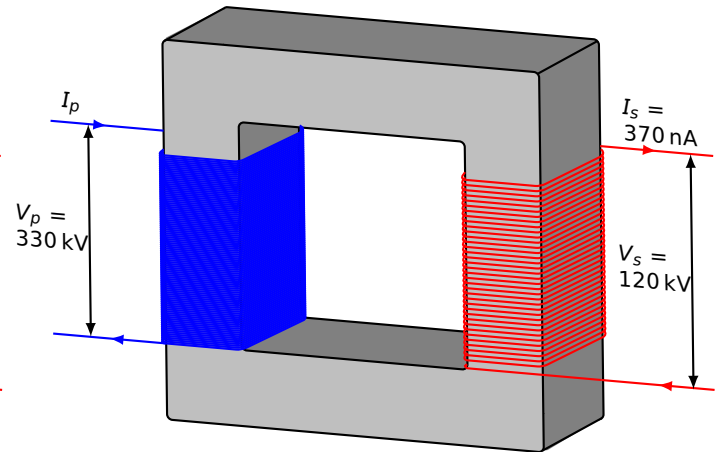


Calculate the current through the primary, I_p or secondary coil I_s . The number of turns *drawn* on the diagram aren't accurate and assume the transformer is 100% efficient;

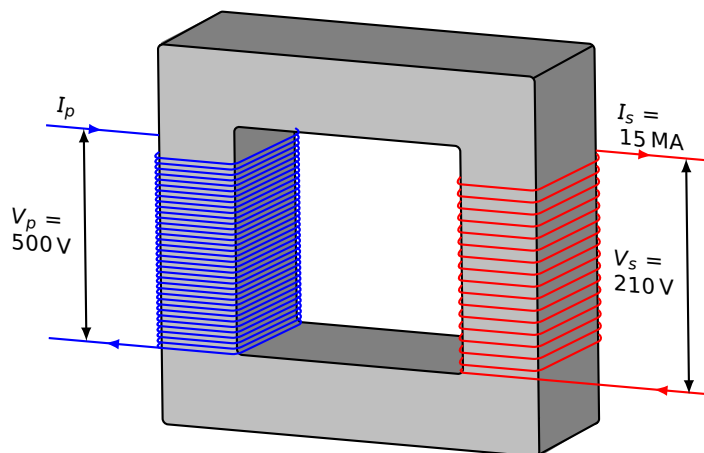
1)



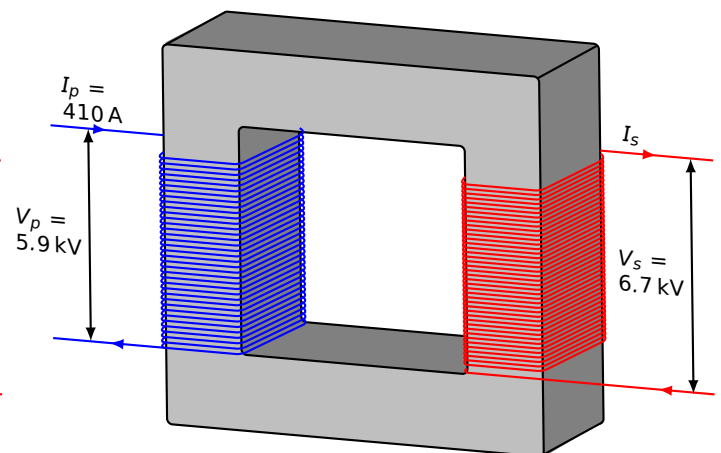
2)



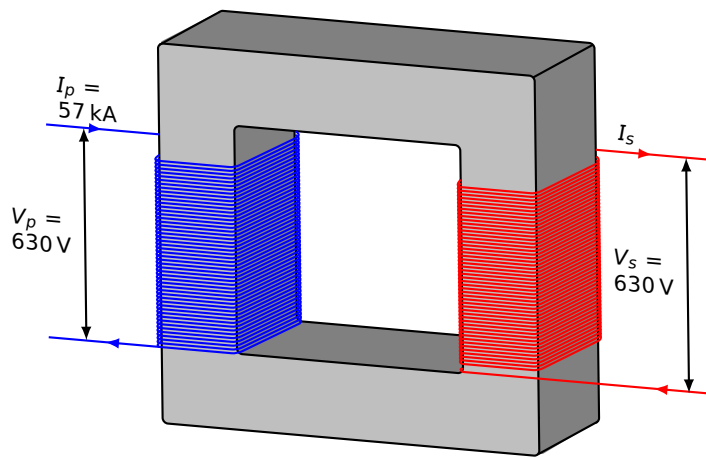
3)



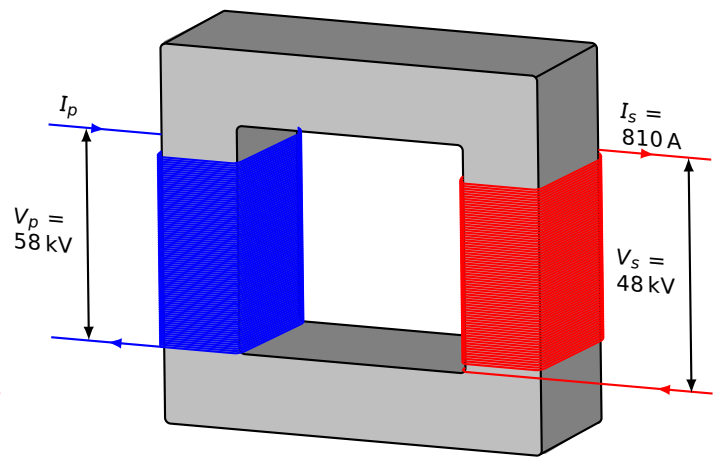
4)



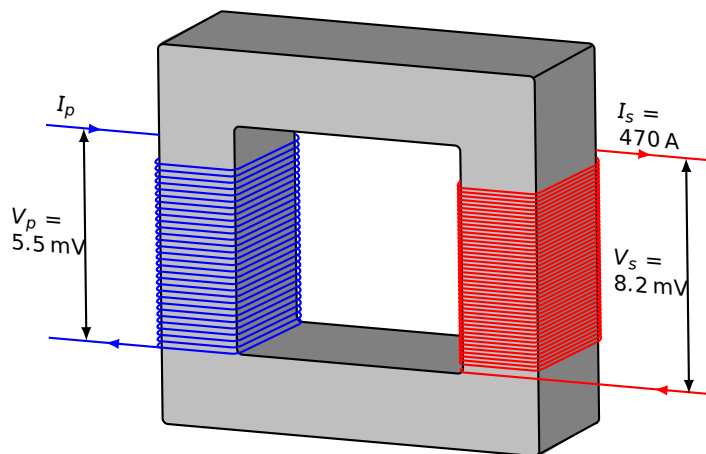
5)



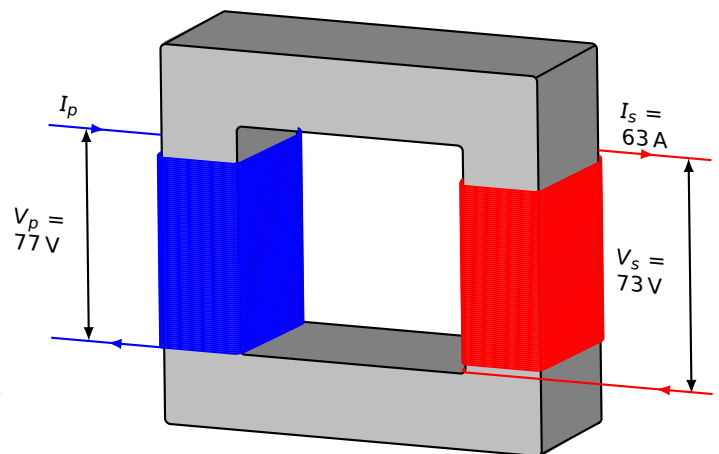
6)



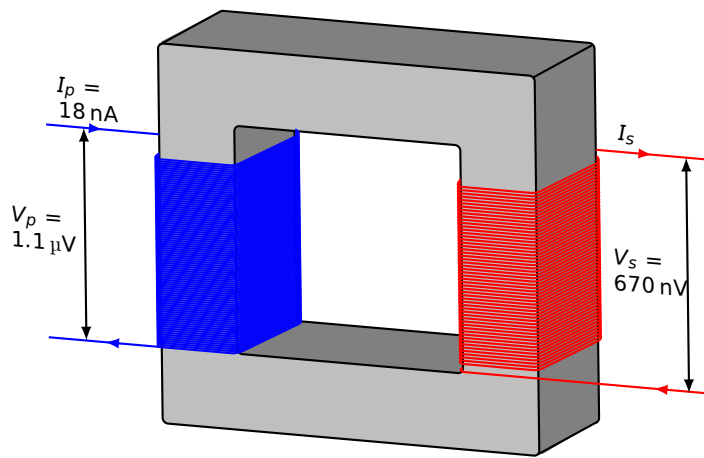
7)



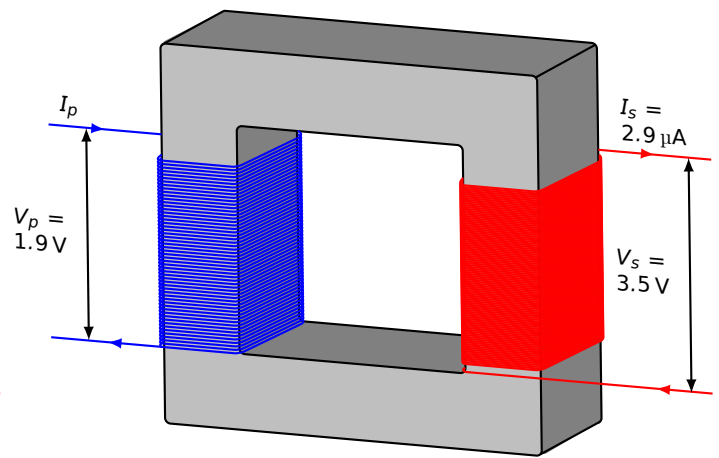
8)



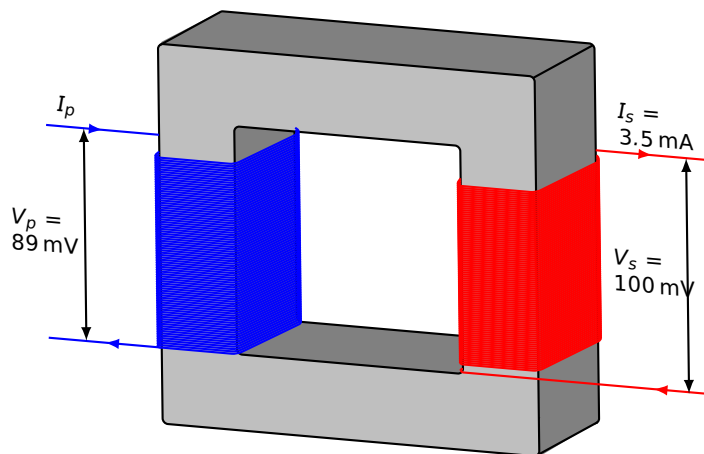
9)



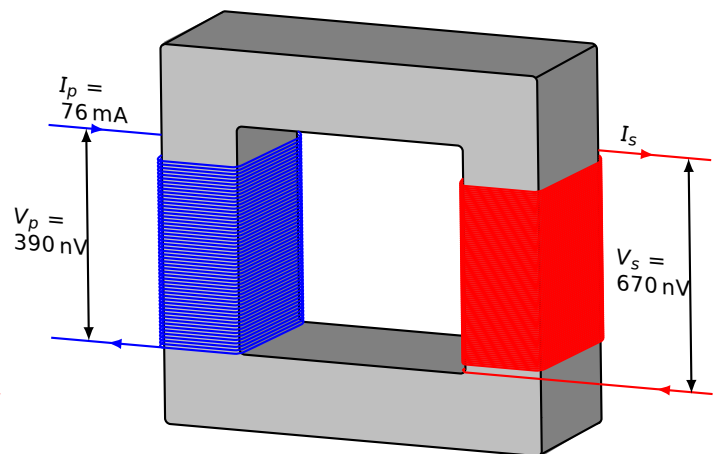
10)



11)



12)



Answers

- 1) $I_s = 1.9 \mu\text{A}$
- 2) $I_p = 130 \text{ nA}$
- 3) $I_p = 6.4 \text{ MA}$
- 4) $I_s = 360 \text{ A}$
- 5) $I_s = 57 \text{ kA}$
- 6) $I_p = 670 \text{ A}$
- 7) $I_p = 710 \text{ A}$
- 8) $I_p = 60 \text{ A}$
- 9) $I_s = 29 \text{ nA}$
- 10) $I_p = 5.2 \mu\text{A}$
- 11) $I_p = 3.9 \text{ mA}$
- 12) $I_s = 44 \text{ mA}$