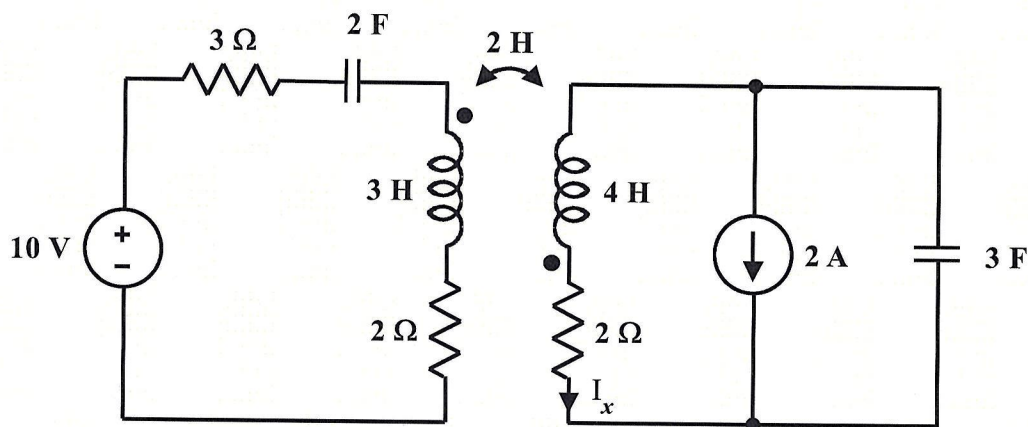


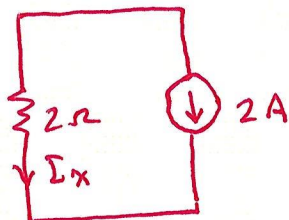
Homework Problem #039

The circuit shown below is operating in a DC steady-state condition. Determine the DC current I_x .



In DC steady state, inductors behave like short circuits and capacitors behave like open circuits.

∴ no current flows on the left-hand side, and the right-hand side is equivalent to:



$$I_x = -2A$$