Chapter 10, Problem 44.

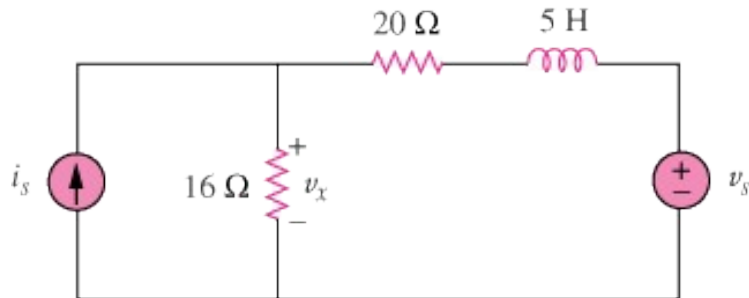Use superposition principle to obtain v_x in the circuit of Fig. 10.89. Let $v_s = 50$ sin2t V and $i_s = 12$ cos($6t + 10°$) A.

Figure 10.89
For Prob. 10.44.