# Problem 13.1

For the three coupled coils, calculate the total inductance:

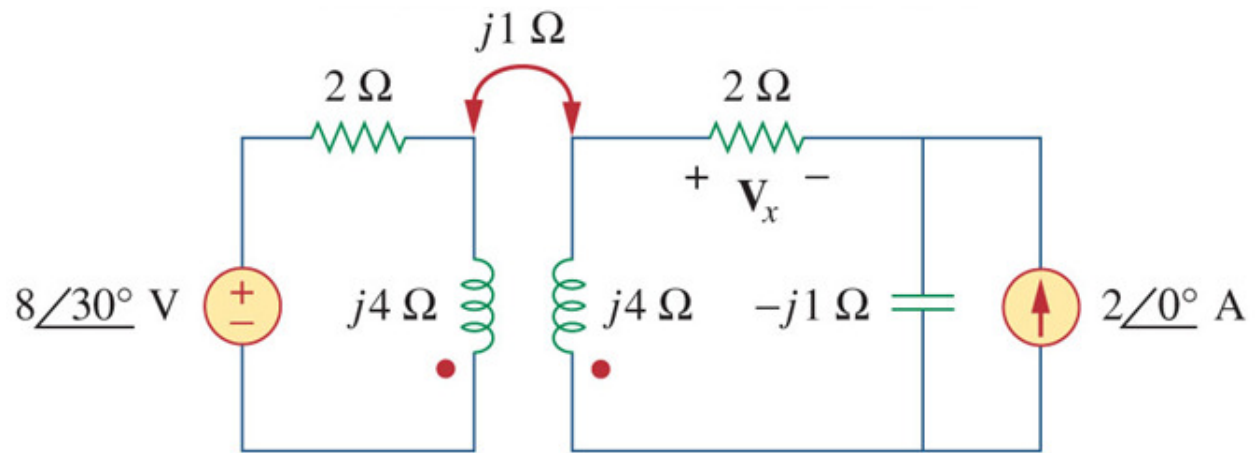

4 H

8 H          10 H

12 H          16 H          20 H
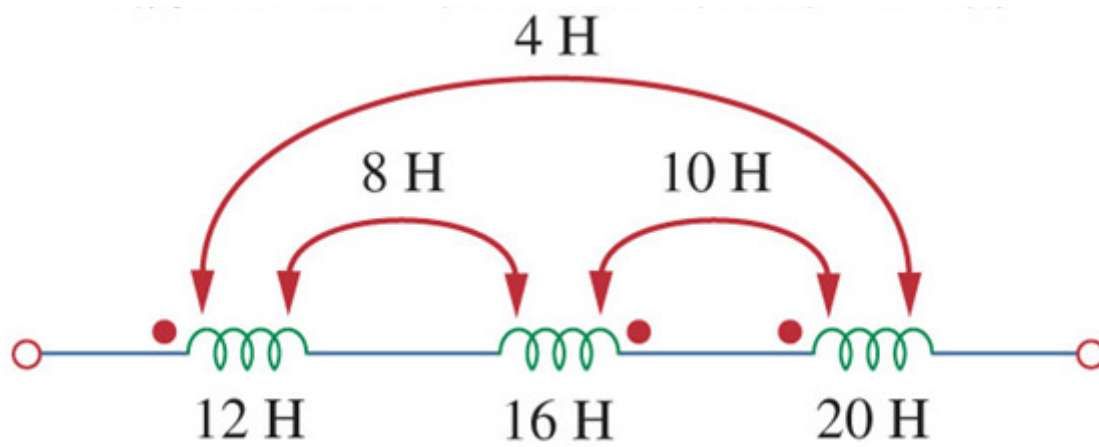
# Problem 13.7

For the circuit shown below find $V_o$
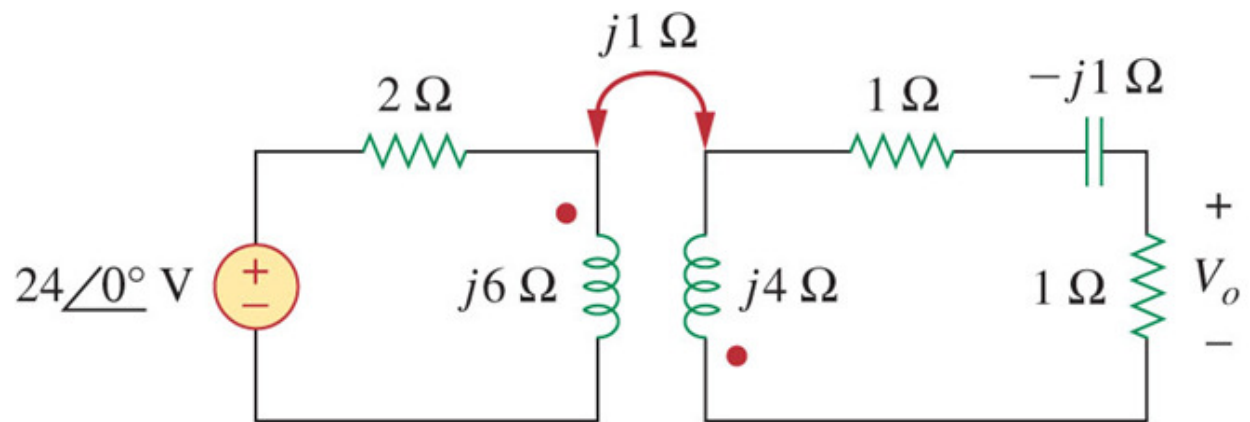
# Problem 13.9

Find $V_x$ for the circuit below:

# Problem 13.24

In the circuit below:

(a) Find the coupling coefficient
(b) Calculate $v_o$
(c) Determine the energy stored in the coupled inductors at t = 2 sec.



1 H

2 Ω

12 cos 4t V

4 H    2 H    $\frac{1}{4}$ F    1 Ω    $v_o$

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