

8 Inductors

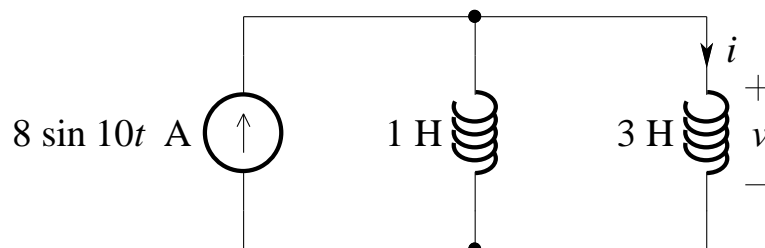
1.

There is a current $i = 5 \sin 10t$ A through an inductance $L = 2$ H. What is the first instant of time after $t = 0$ when the power entering the inductor is exactly:

- (a) 100 W
- (b) -100 W

2.

At $t = 0$, $i = 5$ A in the circuit shown below:



- (a) Find $v(t)$ for all t .
- (b) Find $i(t)$ for $t \geq 0$.