Problem No. – 11

Problem Name: Design a Hartly oscillator circuit to generate a sinusoidal signal in Pspice with frequency 79kHz.

Calculation:

Let, C = 0.01uF

From equation we get,

$$L_t = 345uH$$

$$L_t = L_h - L_l = 345$$

Let, $L_1 = 100 uH$

Therefore, $L_h = 245 uH$

From the graph we get,

$$T = 20.5u - 7.66u$$

$$f = 1/T = 77kHz$$



