Quiz #22 EE 221 Spring 2021             Name:_____

Closed book and notes.

**Show your work for credit and place a box around your answer.**

1. Find the current flowing in Vin (write an equation in the time domain). (5 points)



**K L1 L2 1**

Vin   R2   Vprime         out

Vin   1n   L1   L2   R1

1   10m   5

SINE(0 170 60)      .tran 0 100m 50m

$$\frac{V_1}{V_2} = \frac{N_1}{N_2} = \sqrt{\frac{L_1}{L_2}} = \frac{1}{N} \quad V_1 N_1$$