$$I_{sense}(t) = 0.067 i(t) + 1.68$$

 $V_{sense}(t) = .00744675 v(t) + 1.488$

1) Remove the offset Isense-nooff(t) = Ismselt) - 1.68

Vseuse_nooff(t) = Vseuse(t)-1.488

(2) Calculate inst sensed power

Psiense (t) = Vsense_nooff(t) * Isense_nooff(t)

3) Calculate energy - Integrate

Sunse (tin) = Wsense (tn-1) + Psense(t) o At = \frac{t}{N} v(tn) \cdot itn)

a) Calculate, Avg Power since todo

PANE = t-to Siltn). i(tn). tstep

SCALE RESULT BACK TO REAL VALUES

p(+)=0.067 it) . ,00744675 v(t)

p(t)=.00049 8932 i(t)-v(t)

 $P(t) = \frac{p(t)}{.00049.8932}$

P(t)= 2004.28 p(t)

P.S. = 2004.28 PAVE

PANE = + (v(t)i(t) dt

Sova (th) ct ~ Ev(tn) i(tn).

PAVE=f. S. V(tn)·i(tn)·tstep