Unit3 Lesson 2

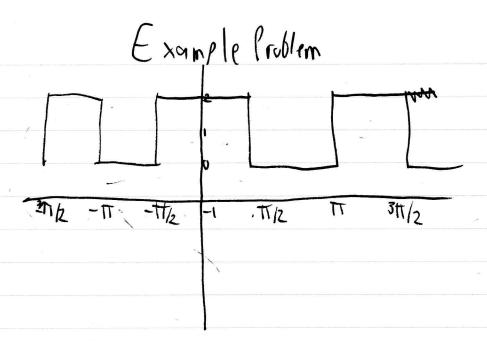
A never function is symmetthic across the y axis

·An all function follows f(t) = -f(-t)-

bn=0, on=2 f(H) cos (n It t) dt,

cos har

 $q_n = 0$, $\delta_n = 11$ Sin(11)



li
$$f(t)$$
 is even, so without $b_n=0$;

 $q_n = \frac{1}{\pi} \int_{\pi}^{\pi} f(t) (\cos(nt)) dt$
 $\frac{2}{\pi} \int_{\pi}^{\pi/2} (\cos(nt)) dt + \int_{\pi/2}^{\pi/2} 0 (\cos(nt)) dt$
 $\frac{4}{\pi} \sin(n\pi/2)$