PROBLEM:

In each of the following cases, simplify the expression <u>as much as possible.</u> Show your work to receive full credit.

(a)
$$4\cos(0.125\pi(n+1)) - 4\cos(0.125\pi(n-1)) =$$

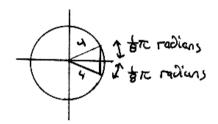
(b)
$$\int_{t-1}^{t+1} \delta(\tau - 3)d\tau = \boxed{ }$$



In each of the following cases, simplify the expression as much as possible.

(a)
$$4\cos(0.125\pi(n+1)) - 4\cos(0.125\pi(n-1)) = \boxed{-3.061 \sin(\frac{1}{8}\pi \Lambda)}$$

1)SE CALCULATUR OR GRAPHICAL TECHNIQUES



(b)
$$\int_{t-1}^{t+1} \delta(\tau - 3) d\tau = \boxed{\underline{u(t-2)} - u(t-1)}$$

INTEGRAL RANGE MUST INCLUDE IMPULSE TO BE NON-ZERO

$$t+1>3 \implies t>2$$

$$t-1<3 \implies t<4$$