

Use 0.7 mm mechanical pencil. Keep 0.25 inch from edge of box. Erase mistakes thoroughly.

EP1

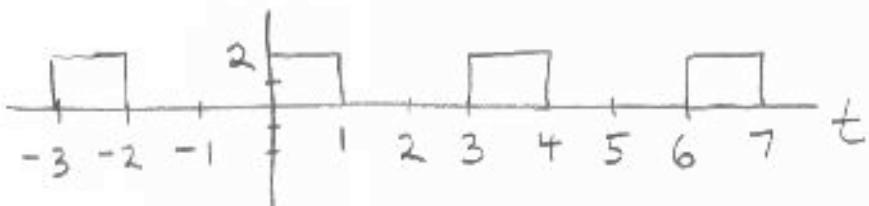
Problem Type Acronym

Name \_\_\_\_\_

ID # \_\_\_\_\_

Question

Find the average power of  
 $x(t)$



Answer

$$P = \frac{1}{T_0} \int_{T_0}^{} |x(t)|^2 dt \quad T_0 = 3$$

$$= \frac{1}{3} \int_0^1 4 dt = \frac{4}{3}$$

Use 0.7 mm mechanical pencil. Keep 0.25 inch from edge of box. Erase mistakes thoroughly.

EP2  
Problem Type Acronym

Name \_\_\_\_\_

ID # \_\_\_\_\_

Question

Find the total energy  
(n)

$$x[n] = 2\delta[n] + 3\delta[n-1] - \delta[n-2]$$

(graph the function)

Answer



$$E = \sum_{n=-\infty}^{+\infty} |x[n]|^2$$

$$= 2^2 + 3^2 + 1^2 = 14$$