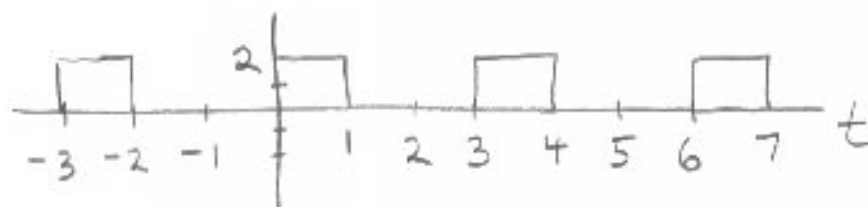


Question

Find the average power of
 $x(t)$



Answer

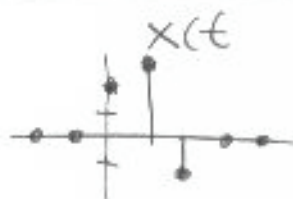
$$P = \frac{1}{T_0} \int_{T_0} |x(t)|^2 dt \quad T_0 = 3$$

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

Question

Find the total energy
in
 $x[n] = 2\delta[n] + 3\delta[n-1] - \delta[n-2]$
(graph the function)

Answer



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

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