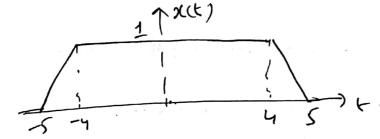
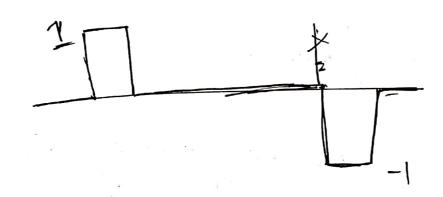
Tutorial Proslem

1. Energy of a trapezoidal pulse x(t).

$$E = \int_{-\infty}^{\infty} \eta^{2}(k) dk .$$

$$= \int_{-\infty}^{-4} (k+s)^{2} dk + \int_{-4}^{4} (k+s)^{2} dk + \int_{-4$$

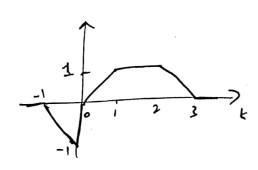


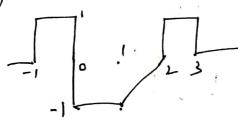


energy of
$$y(t)$$

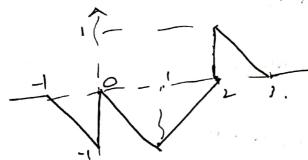
here $y(t) = 1$
 $1 - 5 \le t \le -4$
 $1 - 4 \le t \le 5$
 0 elsewhere

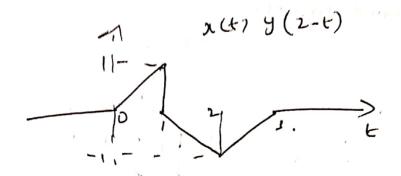






ス(と)り(ヒー1).





Convolution sum

$$\lambda(n) = 38(n) - 28(n-1)$$
.
 $\lambda(n) = \frac{9}{3-2} - \frac{9}{1-1} + \frac{9}{1-1} = \frac{9}{1$

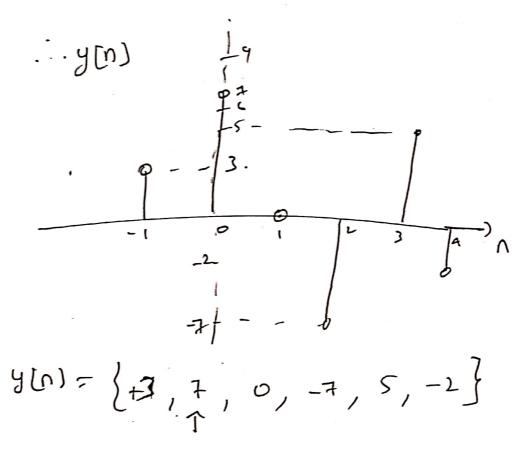
$$y(n) = x(n) * k(n).$$

$$y(n) = \sum_{k} x(k) h(n-k).$$

$$= \sum_{k=0}^{l} x(k) h(n-k).$$

$$= \sum_{k=0}^{l} x(k) h(n-k).$$

$$= 3 h(h) - 2 h(n-1).$$



$$\frac{1}{3} = \frac{1}{3} \times (k) \cdot h \cdot (-k)$$

$$= \frac{1}{3} \cdot (1) + (-1) \cdot (0) = 3.$$

$$= \frac{1}{3} \times (k) \cdot h \cdot (-k)$$

$$= \frac{1}{3} \cdot (3) + (-1) \cdot (1) = 7.$$

$$= \frac{1}{3} \cdot (3) + (-1) \cdot (1) = 7.$$

$$= \frac{1}{3} \cdot (3) + (-1) \cdot (3) = 0$$

$$= \frac{1}{3} \cdot (2) + (-1) \cdot (3) = 0$$

$$= \frac{1}{3} \cdot (2) + (-1) \cdot (3) = 0$$

$$= \frac{1}{3} \cdot (2) + (-1) \cdot (3) = 0$$

$$= \frac{1}{3} \cdot (2) + (-1) \cdot (3) = 0$$

$$= 3(-1) + (-1)(27) = -7.$$

$$y[3] = \sum_{k=0}^{1} x(k) h(3-k)$$

$$= 3(17) + (-1)(-1) = 5$$

$$y[4] = \sum_{k=0}^{1} x(k) h(4-k)$$

$$= 3(0) + (-1) = -2$$

$$= 3(0) + (-1) = -2$$

$$= 3(0) + (-1) = -2$$

$$= 3(0) + (-1) = -2$$