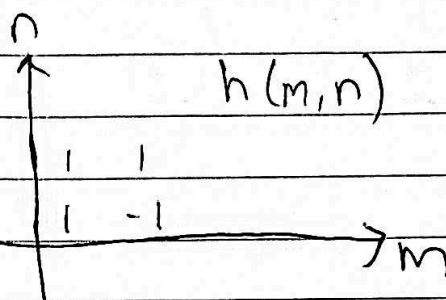
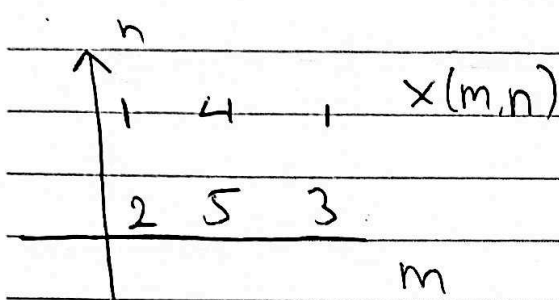


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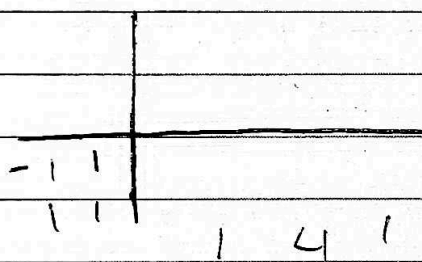
Date :



Konvolusi sinyal diatas

$$y(n_1, n_2) = \sum_{k_1=-\infty}^{\infty} \sum_{k_2=-\infty}^{\infty} x(k_1, k_2) h(n_1 - k_1, n_2 - k_2)$$

Cerminkan $h(n_1, n_2)$ ~~di atas~~



• -1 $(1,2)$ 5 3 $\longleftrightarrow -1(0) + (2) \equiv 2$

• $(-1,3)$ $(1,5)$ 3 $\longleftrightarrow -1(2) + 5 \equiv 3$

• 2 $(-1,5)$ $(1,3)$ $\longleftrightarrow -5 + 3 \equiv -2$

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$$\begin{array}{ccccccc} & 1 & 4 & 1 & & & \\ 2 & 5 & (-1.3) & 1 & \longleftrightarrow & -3 + 1(0) \equiv -3 \\ & & 1 & 1 & & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & -1 & (1.1) & 4 & 1 & \longleftrightarrow & 1(1) + 1(2) \equiv 3 \\ & 1 & (1.2) & 5 & 3 & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & (-1.1) & (1.4) & 1 & \longleftrightarrow & -1 + 4 + 2 + 5 \equiv 10 \\ & (1.2) & (1.5) & 3 & & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & 1 & (-1.4) & (1.1) & \longleftrightarrow & -4 + 1 + 5 + 3 \equiv 5 \\ & 2 & (1.5) & (1.3) & & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & 1 & 4 & (-1.1) & 1 & \longleftrightarrow & -1 + 3 + 0 + 0 \equiv 2 \\ & 2 & 5 & (1.3) & 1 & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & -1 & 1 & & & & \\ & 1 & (1.1) & 4 & 1 & \longleftrightarrow & 1 \\ & 2 & 5 & 3 & & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & -1 & 1 & & & & \\ & (1.1) & (4.1) & 1 & \longleftrightarrow & 1 + 4 \equiv 5 \\ & 2 & 5 & 3 & & & \end{array}$$

$$\begin{array}{ccccccc} \bullet & & -1 & 1 & & & \\ & 1 & (1.4) & (1.1) & \longleftrightarrow & 4 \\ & 2 & 5 & 3 & & & \end{array}$$

No. :

Date :

$$\begin{array}{ccc}
 & -1 & 1 \\
 1 & (1,4) & (1,1) \\
 2 & 5 & 3
 \end{array}
 \longleftrightarrow 4+1=5$$

Sehingga 1, ...

$$g(n_1, n_2) = \begin{array}{c|cccc}
 & 1 & 5 & 5 & 4 \\
 & 3 & 10 & 5 & 2 \\
 & 2 & 3 & -2 & -3
 \end{array}$$