

DLCV

Which of the following is valid image format.

A) RGB

B) RGBA

C) CMYK

D) Hexadecimal

1) What is the output of convolving the sequence $\{1, 0, -1\}$ with $\{1, -1, 0, 2, 6\}$

Let A be a sequence of the form $\{-1, -1, 0, 1, 1\}$ and B is another sequence $\{1, 2, 1\}$, what is the sum (C) , where $C = A * B$, ($*$, is the convolution)

Consider the Kernel $\begin{bmatrix} 1 & 0 & -1 \\ 2 & 1 & 3 \\ 1 & 0 & 1 \end{bmatrix}$, is the kernel separable ?

What is the Fourier Transform of the Pulse(t/T), where Pulse(x) = 1 if $-1 \leq x \leq 1$ and 0 otherwise.