6. Kernel Composition Rules

Exercises due Mar 8, 2023 08:59 -03 Completed

Kernel Composition Rules

0:00 / 0:00 1.0x

Video

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Kernel Composition Rules 1

1/1 point (graded)

Recall from the video above that if $f : \mathbb{R}^d \to \mathbb{R}$ and $K(x, x')$ is a kernel, so is

$$\widetilde{K}(x, x') = f(x) K(x, x') f(x').$$

If there exists $\phi(x)$ such that

$$K(x, x') = \phi(x) \cdot \phi(x'),$$

then which of the following φ gives

Submit You have used 2 of 2 attempts

Kernel Composition Rules 2

1/1 point (graded)

Let and be two vectors of the same dimension. Use the the definition of kernels ar composition rules from the video above to decide which of the following are kernels. (N feature vectors that are not polynomial.)

(Choose all those apply.)

- [x]
- [x]
- [x]

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