Explain various types of Kernels with respect to the formula

**Linear kernel:**

Simplest form of kernel

It computes the dot product between input features

K(X,X’)=X.X’

**Polynomial kernel:**

K(X,X’)=(X,X’+C)^d

Where c is a constant and d is degree of polynomial

**RBF:**

K(X,X’)=EXP(-||X-X’||^2/2sigma^2)

Where ||X-X’||- is squared euclidean distance of X,X’

And sigma is spreadness of kernel bandwidth