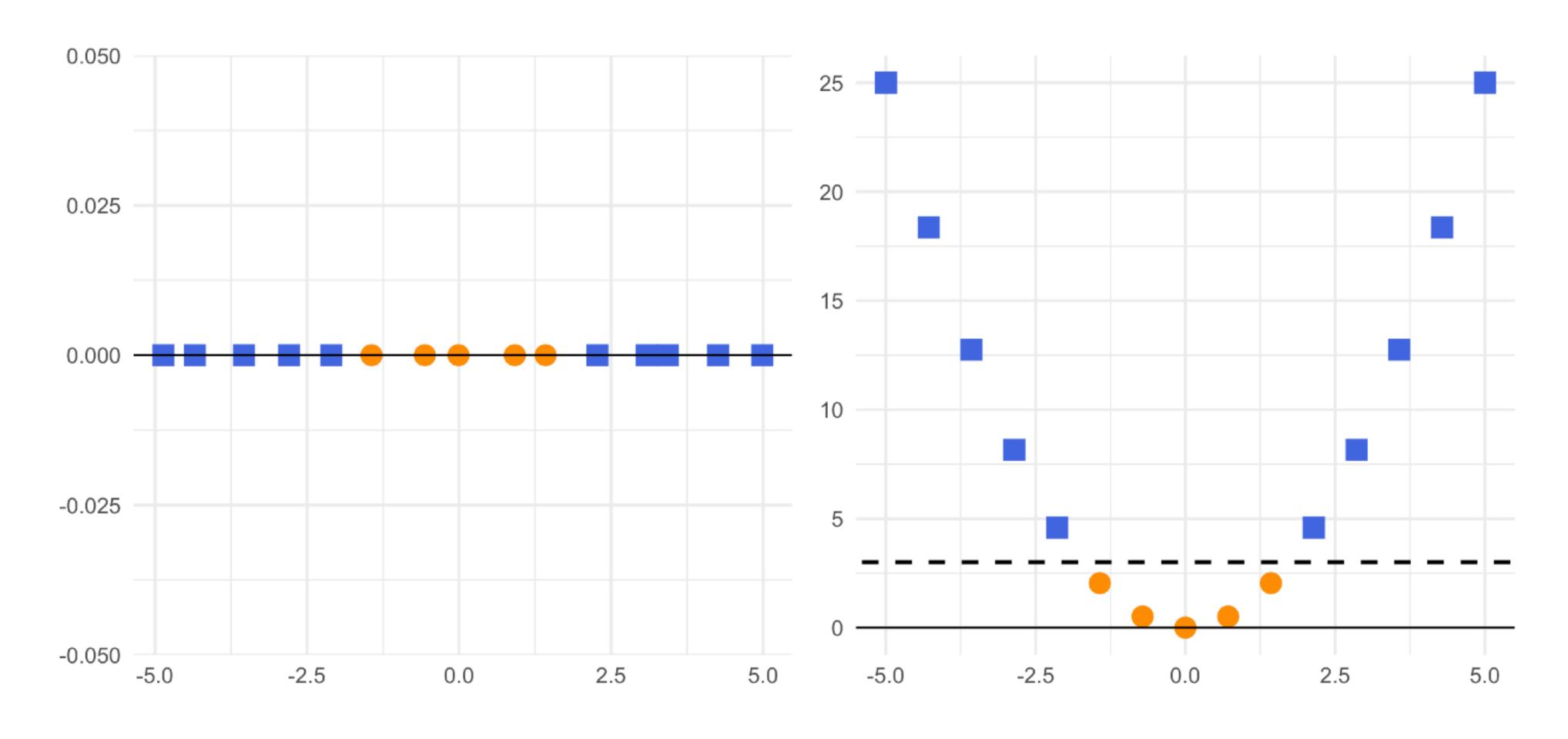
## The Kernel Trick

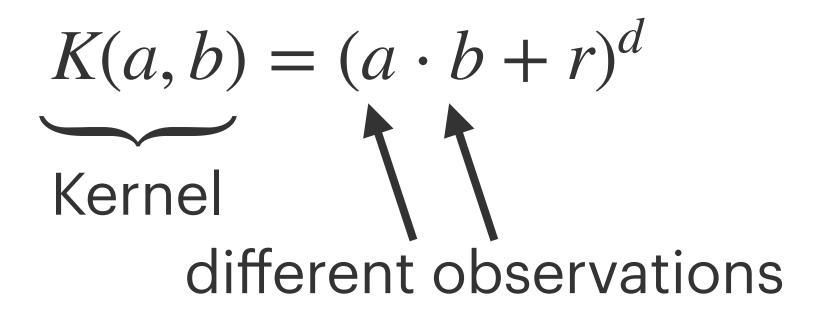
## what is an SVM Kernel?

A function that computes the relationship between vectors in multiple dimensions (without actually having to calculate the coordinates for those dimensions)



## The Polynomial Kernel

The Polynomial Kernel in the previous sleep vs. productivity example



where r is the coefficients and d the degree (determined by cross validation)