Consider the sample $S = \{(x_i, y_i) \mid 1 \leq i \leq 20\}$ of points $x_i$ in $\mathbb{R}^2$ as shown in the Figure 1.

Using at least four distinct kernels in the `kernlab` R package determine a support vector machine classifier.

Graph total time needed to compute the classifier as a function of the error of each of the classifiers.

Note: to determine the time used to compute the classifier you can use

```r
ptm <- proc.time();
computation of the SVM
proc.time() - ptm;
```

Figure 1: Sets of 20 points in $\mathbb{R}^2$