distances

```
library("sp")
library("raster")
library("rgeos")
## rgeos version: 0.5-9, (SVN revision 684)
## GEOS runtime version: 3.10.2-CAPI-1.16.0
## Please note that rgeos will be retired by the end of 2023,
## plan transition to sf functions using GEOS at your earliest convenience.
## GEOS using OverlayNG
## Linking to sp version: 1.4-7
## Polygon checking: TRUE
library("sf")
## Linking to GEOS 3.10.2, GDAL 3.4.2, PROJ 8.2.1; sf_use_s2() is TRUE
the distances between a matrix of 2D points and a single 2D point
?spDistsN1
the geographic distance between two (sets of) points
?pointDistance
the distance between the given geometries
?gDistance
the distance between pairs of geometries
?st_distance
the distance from a set of points to all cells of a Raster
?distanceFromPoints
```