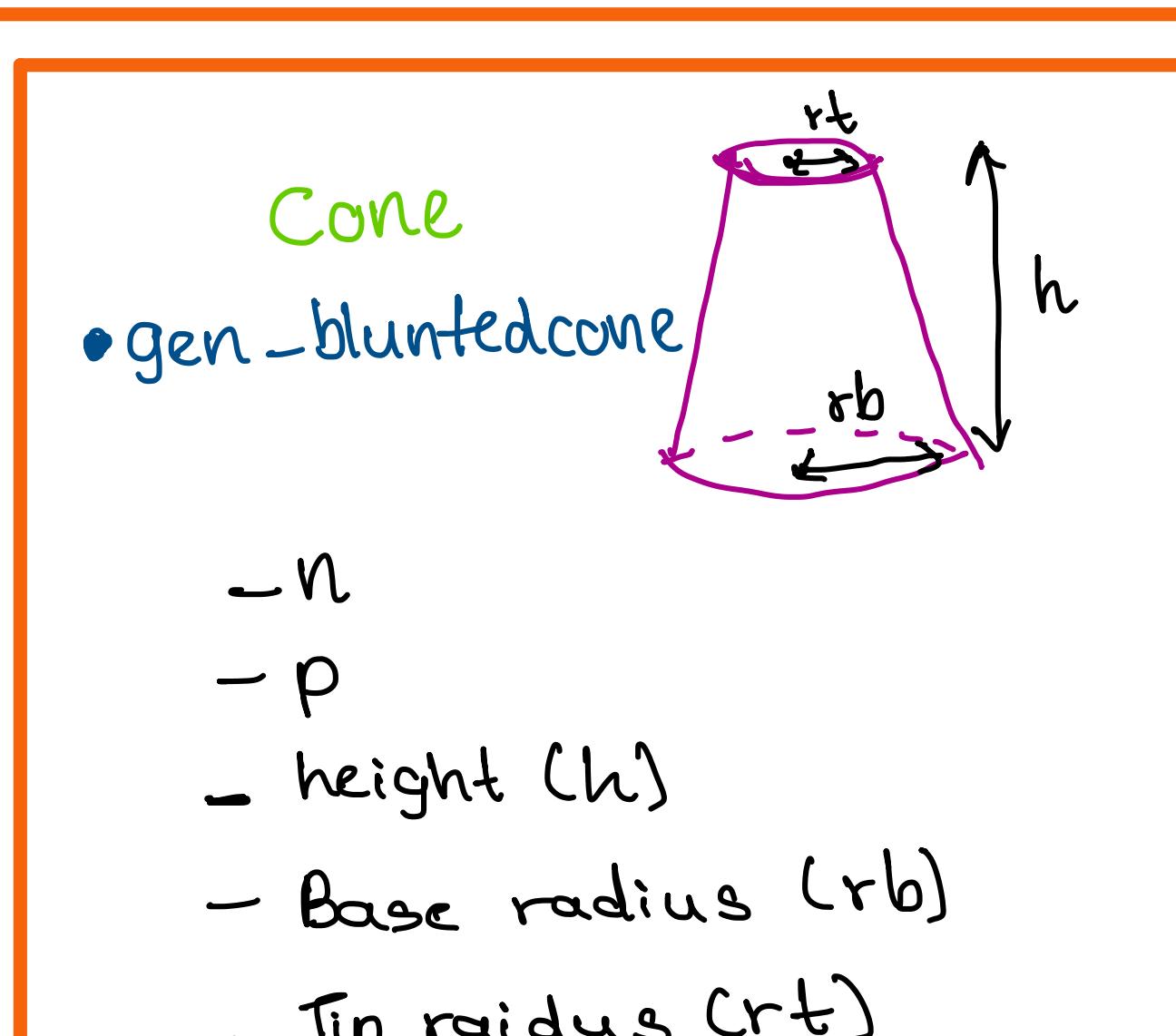
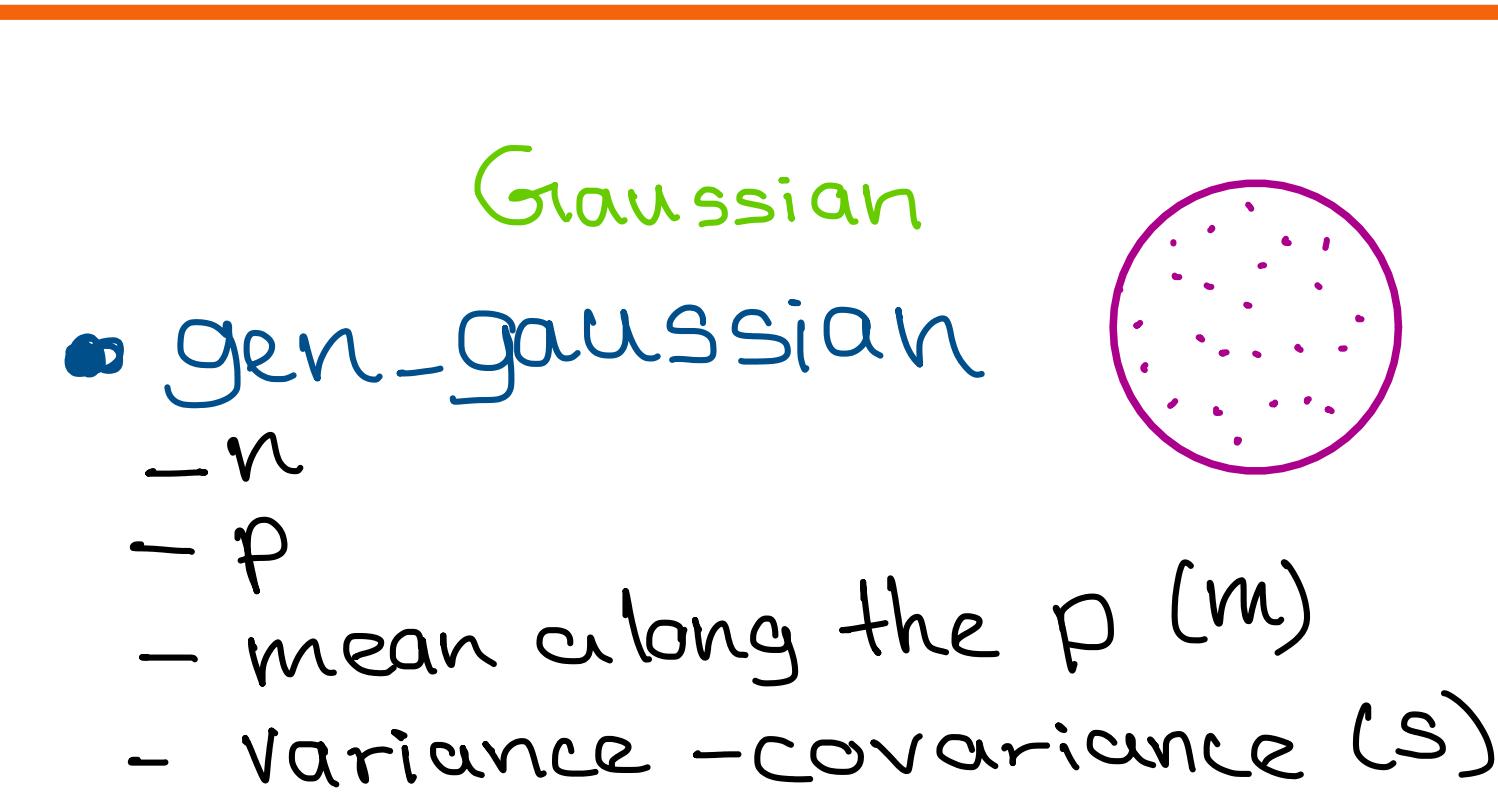




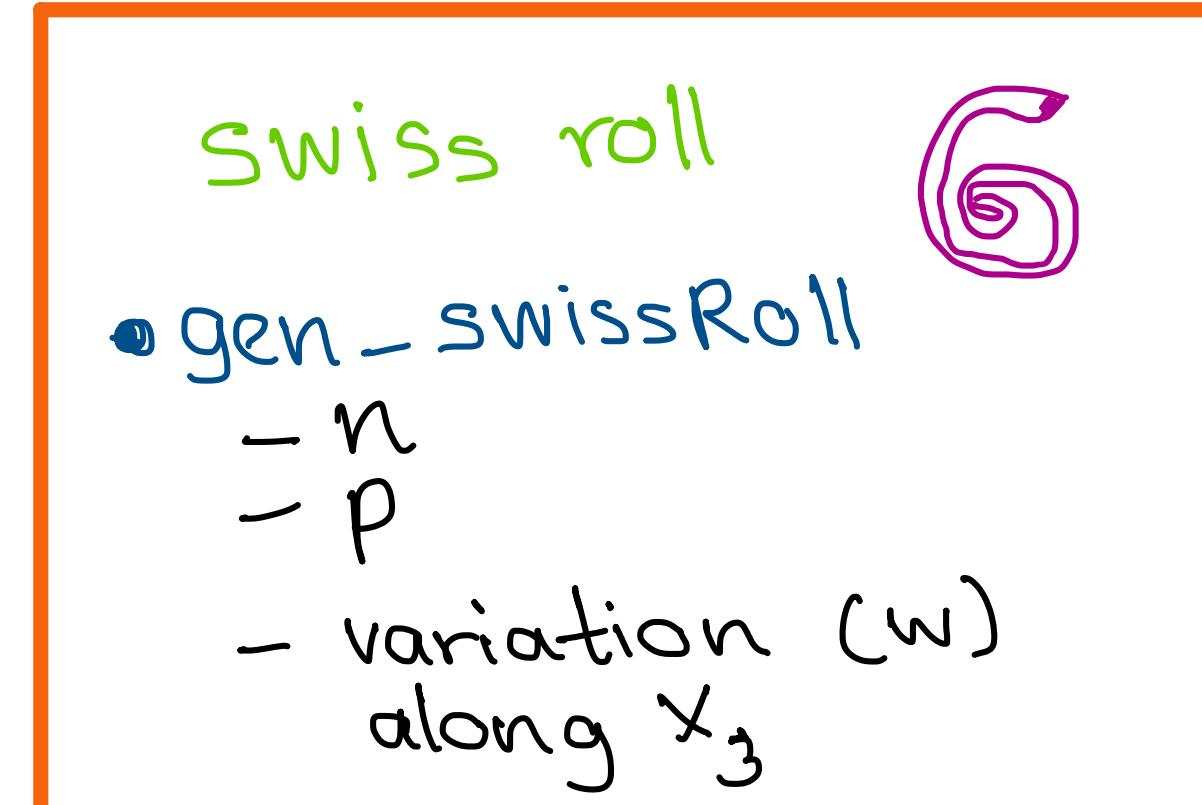
- gen - threebranches
- gen - five branches
- gen - seven branches
- gen - four branches Bkg
- gen - eightbranches
 - #of points in each branch (n)
 - p



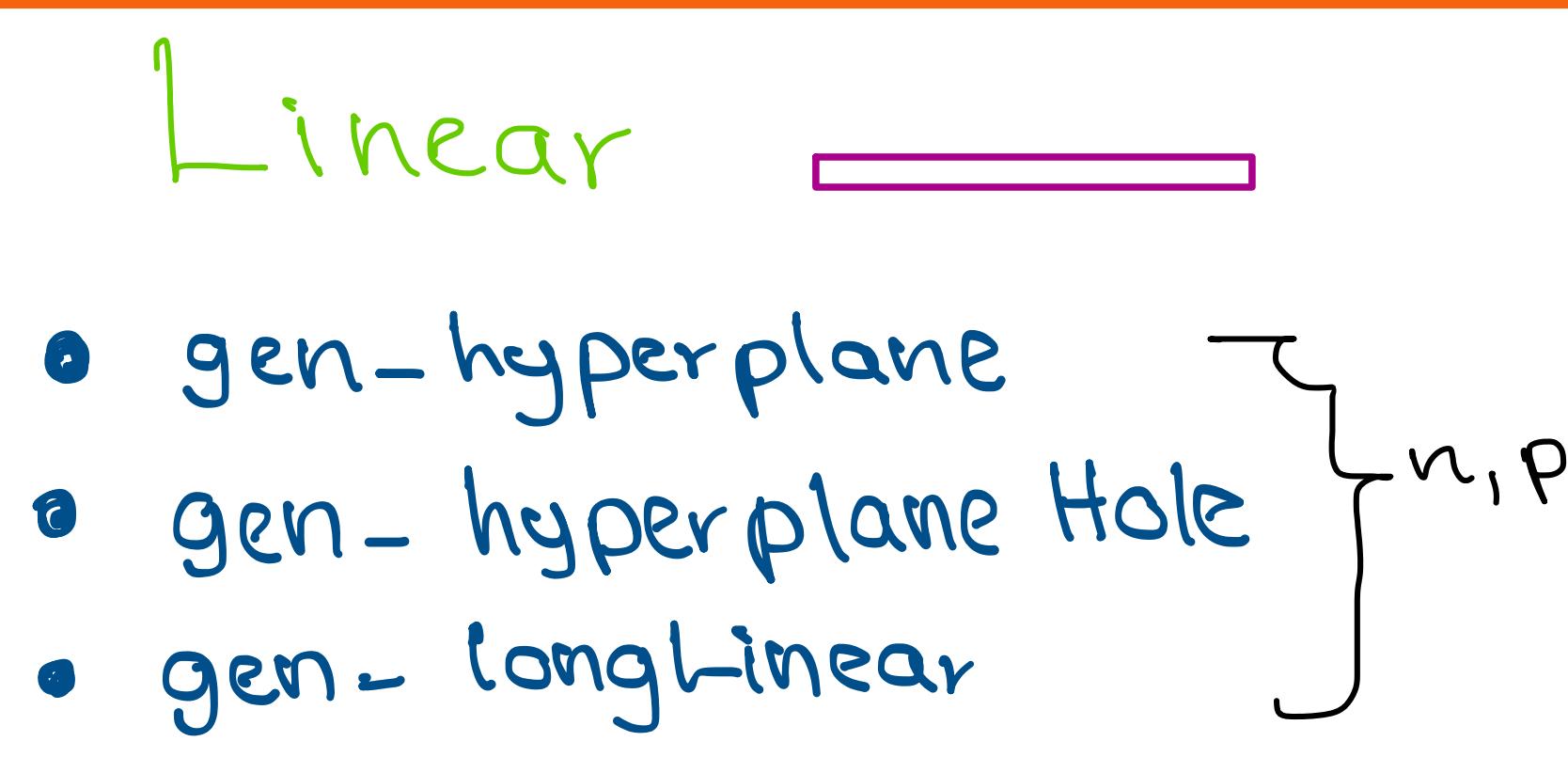
- gen - bluntedcone
 - n
 - p
 - height (h)
 - Base radius (rb)
 - Tip radius (rt)
- gen - unifCube
 - n
 - p
- gen - gridedCube
 - n (grid points in each dimension)
 - p
- S-curve
 - gen - Scurve
 - gen - ScurveHole
 - n
 - p



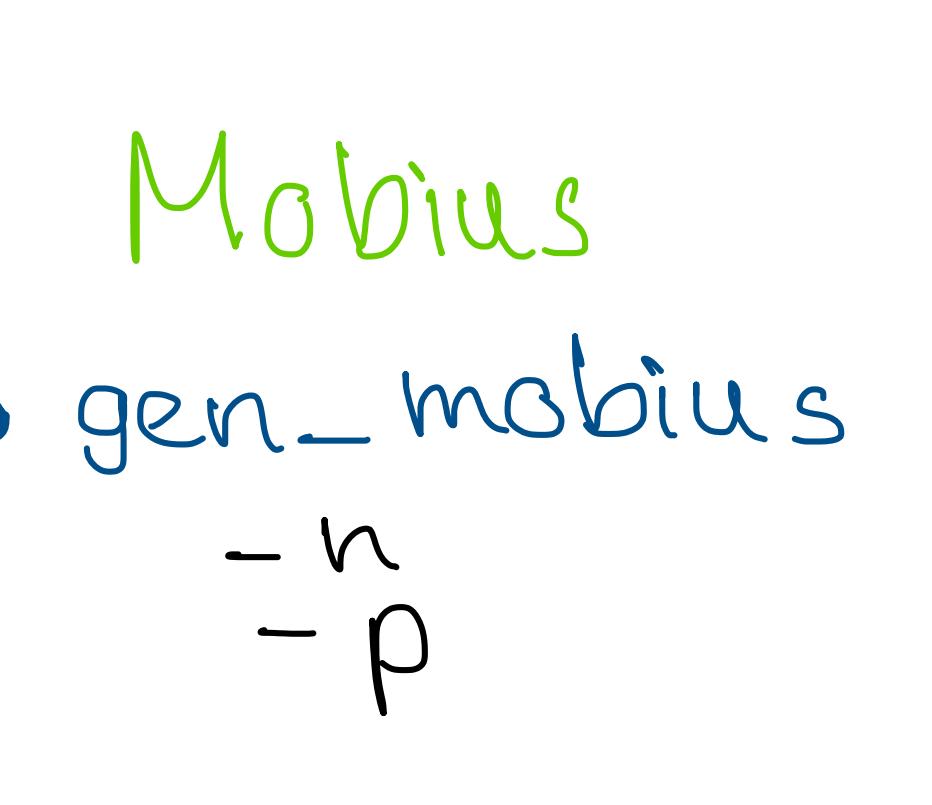
- gen_gaussian
 - n
 - p
 - mean along the p (m)
 - variance - covariance (s)



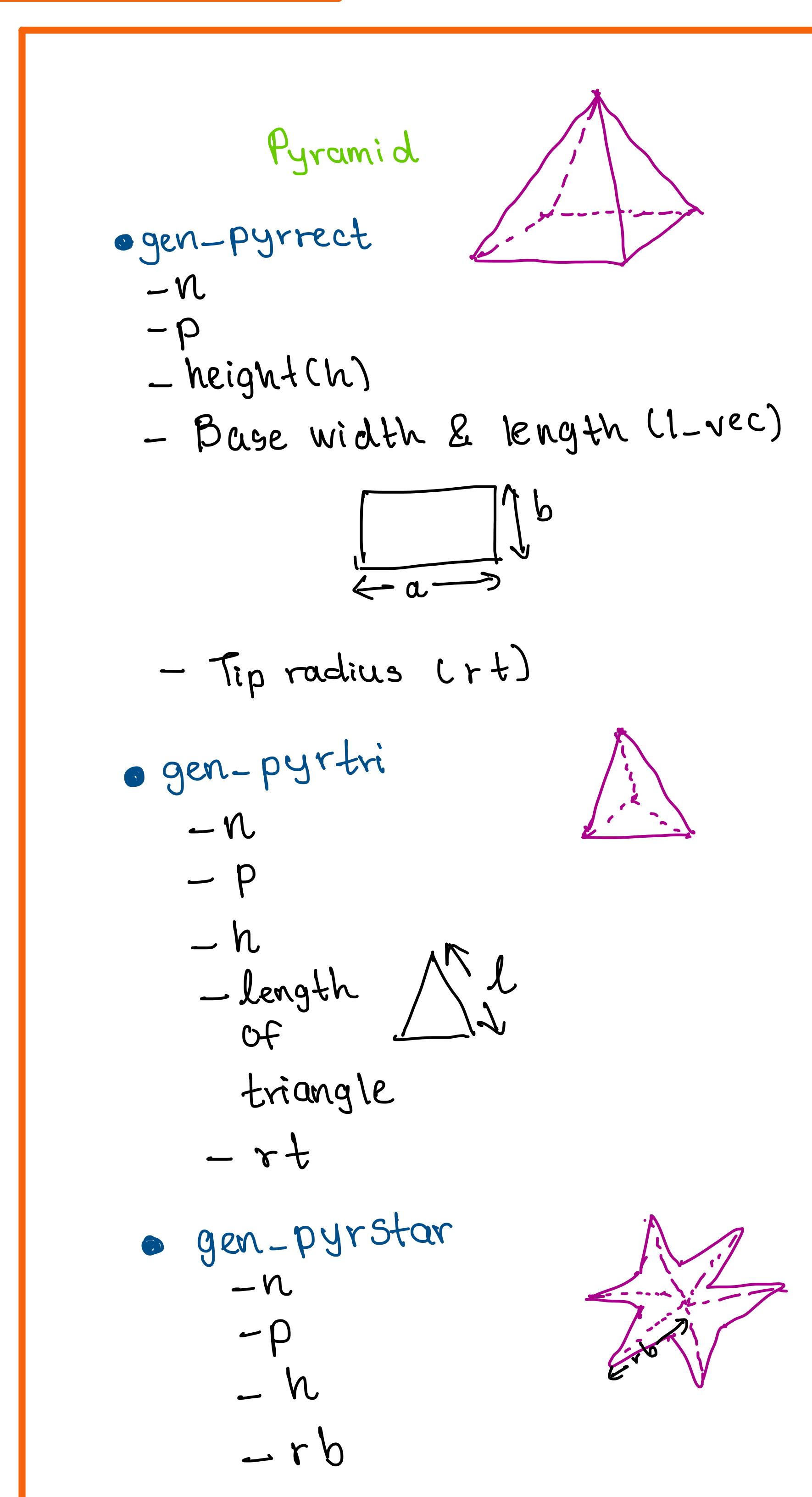
- gen_swissRoll
 - n
 - p
 - variation (w) along X₃



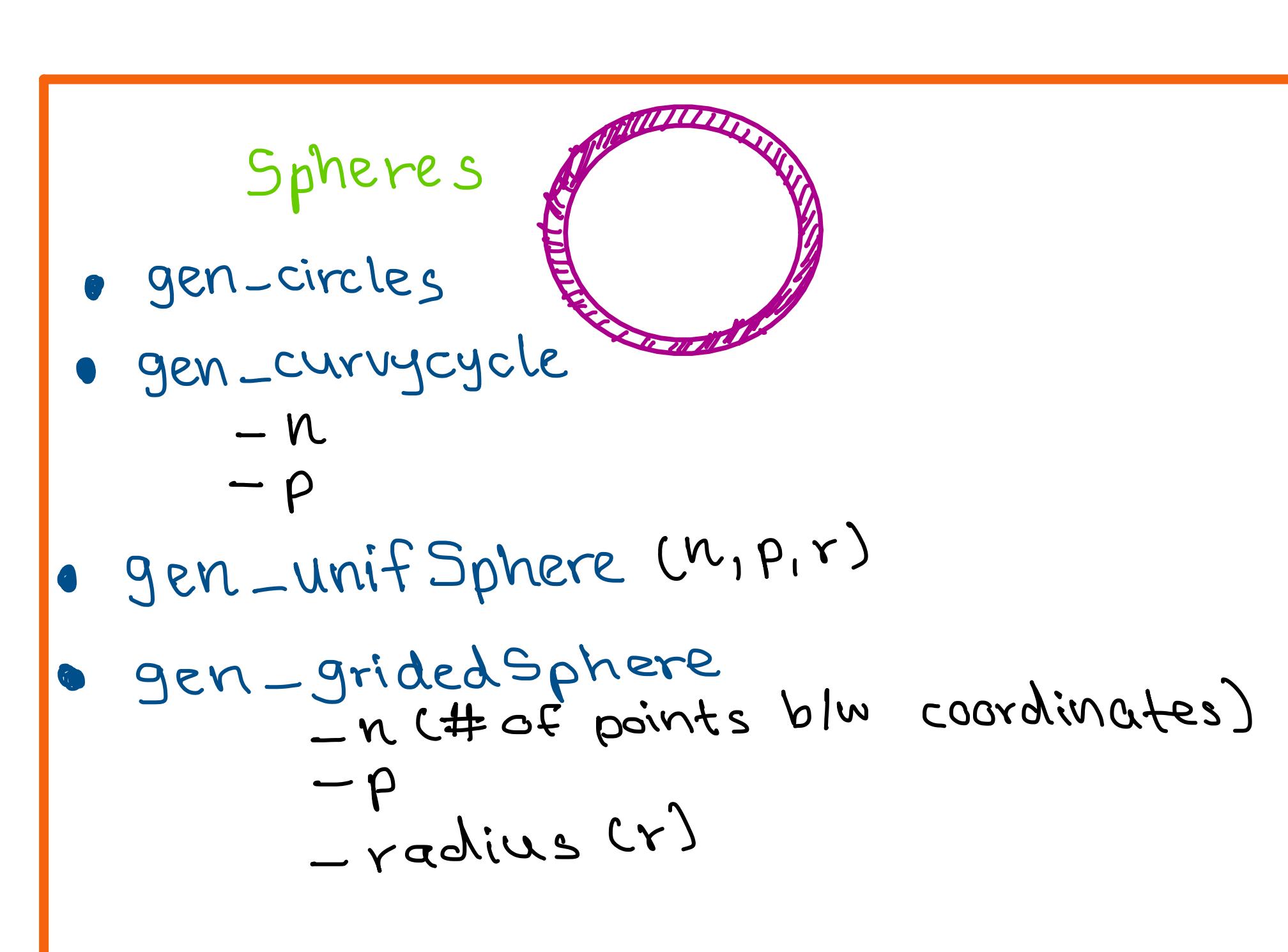
- gen_hyperplane
- gen_hyperplaneHole
 - n, p
- gen_longLinear



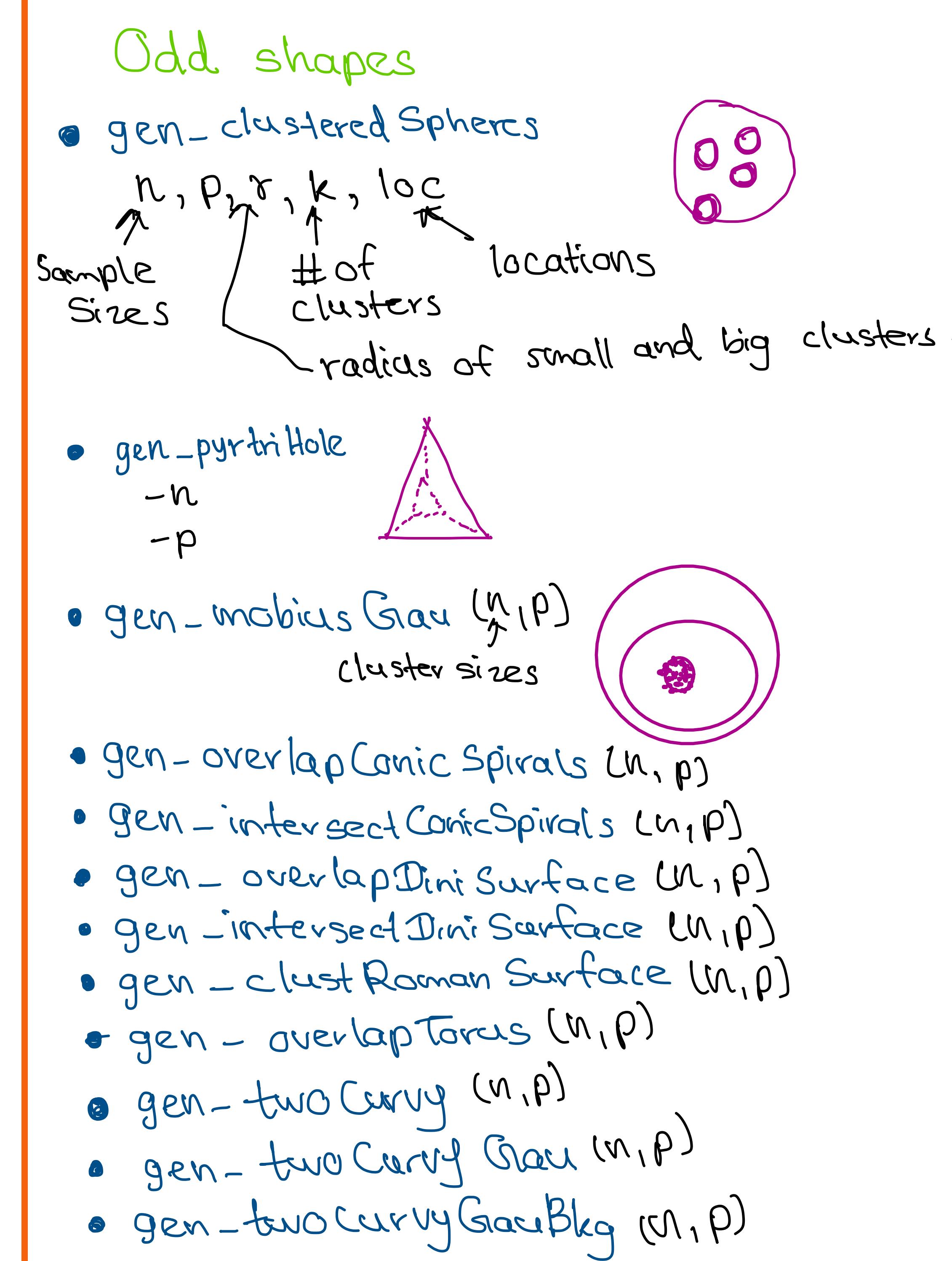
- gen_mobius
 - n
 - p



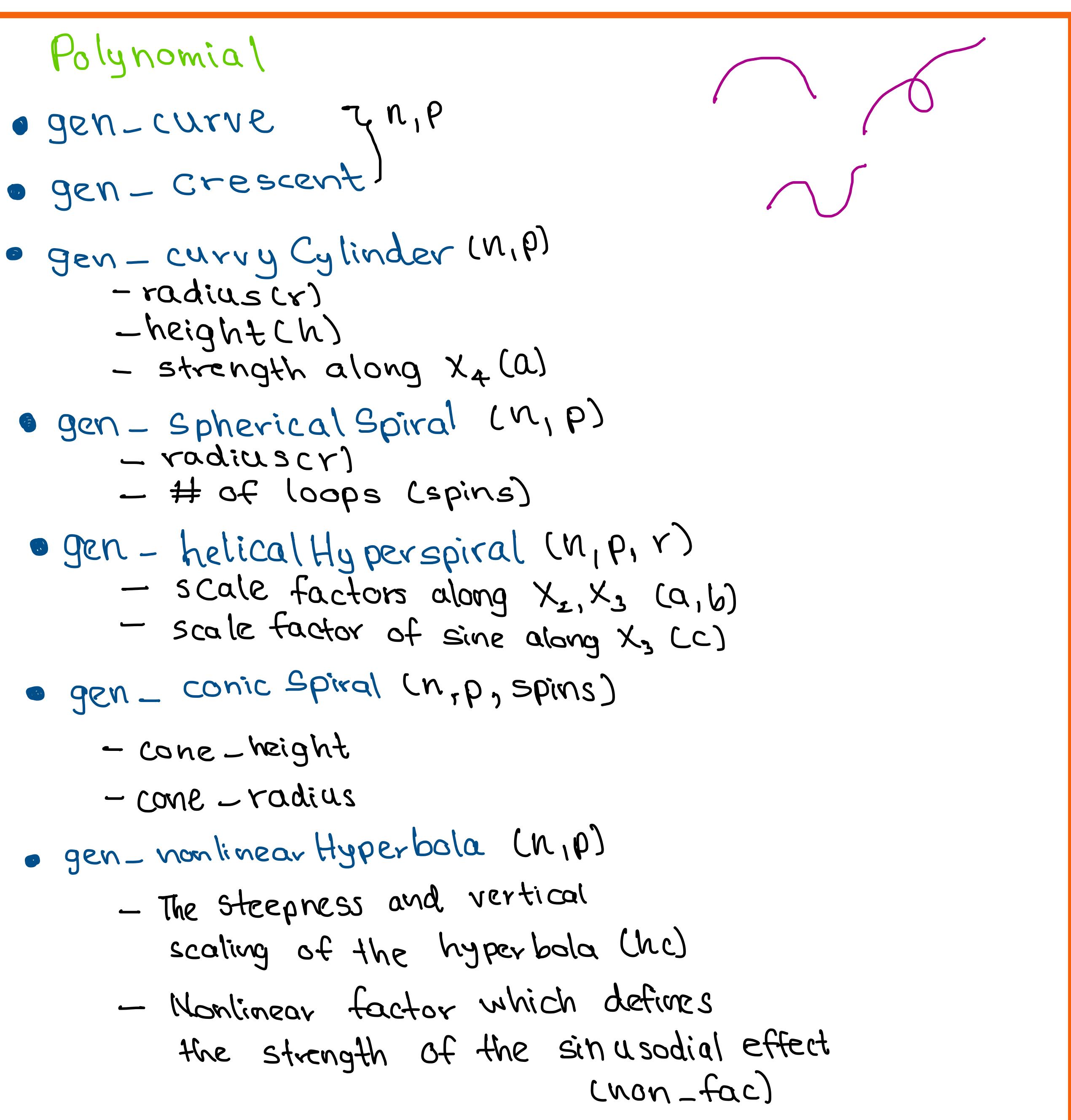
- gen_pyrrect
 - n
 - p
 - height (h)
 - Base width & length (l_vec)
 - Tip radius (rt)
- gen_pyrtri
 - n
 - p
 - h
 - length of triangle
 - rt
- gen_pyrstar
 - n
 - p
 - h
 - rb



- gen_circles
- gen_curvycycle
- gen_unifSphere (n, p, r)
- gen_gridedSphere
 - n (# of points b/w coordinates)
 - p
 - radius (r)



- gen_clusteredSpheres
 - n, p, r, k, loc
 - Sample Sizes
 - # of clusters
 - locations
 - radii of small and big clusters -
- gen_pyrtriHole
 - n
 - p
- gen_mobiusGau (n, p)
 - cluster sizes
- gen_overlapConicSpirals (n, p)
- gen_intersecConicSpirals (n, p)
- gen_overlapDiniSurface (n, p)
- gen_intersecDiniSurface (n, p)
- gen_clustRomanSurface (n, p)
- gen_overlapTorus (n, p)
- gen_twoCurvy (n, p)
- gen_twoCurvyGau (n, p)
- gen_twoCurvyGauBkg (n, p)



- gen_curve (n, p)
- gen_crescent
- gen.curvyCylinder (n, p)
 - radius (r)
 - height (h)
 - strength along X₄ (a)
- gen_sphericalSpiral (n, p)
 - radius (r)
 - # of loops (spins)
- gen_helicalHyperspiral (n, p, r)
 - scale factors along X₂, X₃ (a, b)
 - scale factor of sine along X₃ (c)
- gen_conicSpiral (n, p, spins)
 - cone_height
 - cone_radius
- gen_nonlinearHyperbola (n, p)
 - The steepness and vertical scaling of the hyperbola (n, c)
 - Nonlinear factor which defines the strength of the sinusoidal effect (non_fac)

- gen_oneGridBkg (n, p)
 - grid points in each p
- gen_twoGrids (n, p)
- gen_twoGridsBkg (n, p)
- gen_longClust (n, p, k)
- gen_overlappedCurvCycle (n, p, k)
- gen_shiftedCircleClusts (n, p, k)
- gen_overlappedCircleClusts (n, p, k)