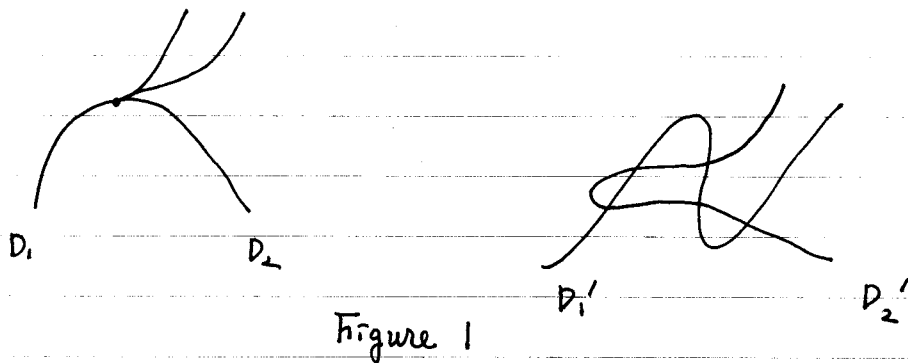


Since the total intersection number is an integer, it is constant. \Rightarrow It is invariant under continuous deformation of the D_i . \square

Given divisors D_i having the origin as isolated point of intersection, we may perturb them slightly to smooth divisors D_i' having a finite number of transverse intersections near the origin (Figure 1). Each of these transverse intersections has local intersection number $+1$ and $(D_1 \cdots D_n)_{\text{tot}}$ is the total number of such intersections.

\square Since we may shrink U , and D_i 's have the origin as isolated point of intersection, $f^{-1}(0) = \{0\}$ in U . \Rightarrow By the argument above, $(D_1 \cdots D_n)_{\text{tot}} = (D_1' \cdots D_n')_{\text{tot}}$. \square P 657,
it is possible to have smooth divisors around the intersection points.



(d) We now assume that the D_i meet at the origin and \forall ^{that} D_i is nonsingular. Set $D_i' = D_i \cap D_i$ for $i \geq 2$. Then we claim that