

and suppose that (x_0, y_0, z_0) is a point of this locus. We then confine our attention to points near (x_0, y_0, z_0) , and ask the following question: Is it possible to find a rectangular box defined by certain inequalities

$$|x - x_0| < a, |y - y_0| < b, |z - z_0| < c$$

such that every line parallel to the z -axis and passing through the interior of the box intersects the locus defined by (8-4) exactly once inside the box? If so, then to each pair (x, y) for which $|x - x_0| < a$ and $|y - y_0| < b$ there corresponds a unique z such that $|z - z_0| < c$ and $F(x, y, z) = 0$. This defines z as a single-valued function of (x, y) , say $z = f(x, y)$, and gives a solution of (8-4), that is, $F(x, y, f(x, y)) = 0$.

Under certain conditions it is possible to choose a box of the sort just described. We shall explain the plausibility of this statement from a geometrical point of view. Suppose that the locus defined by (8-4) is a surface, such as an ellipsoid, a hyperboloid, or a cone. Suppose that the surface is smooth, and that the tangent plane at the point (x_0, y_0, z_0) is not parallel to the z -axis. Then we expect the part of the surface near (x_0, y_0, z_0) to be almost like the nearby part of the tangent plane; it should then be represented by an equation $z = f(x, y)$, since each line parallel to the z -axis may be expected to intersect the surface exactly once in the vicinity of (x_0, y_0, z_0) , provided that $x - x_0$ and $y - y_0$ are sufficiently small (see Fig. 53).



Fig. 53.

The condition on F in order that the plane tangent to the surface at (x_0, y_0, z_0) shall not be parallel to the z -axis is $\frac{\partial F}{\partial z} \neq 0$ at the point, for the ratios

$\frac{\partial F}{\partial x} : \frac{\partial F}{\partial y} : \frac{\partial F}{\partial z}$ define the direction of the normal to the surface; therefore $\frac{\partial F}{\partial z} = 0$ means that the normal is perpendicular to the z -axis.

Our discussions of the implicit-function problem for the two cases $F(x, y) = 0$ and $F(x, y, z) = 0$, with geometrical evidence for the solutions $y = f(x)$ and $z = f(x, y)$ in a localized form of the problem, suggest the kind of answers we may expect to some of the questions raised at the beginning of the present section. We do not yet have any real proofs, however. The proofs must come out of the analytical situation, for we do not really know the facts about geometry of the curves and surfaces except by an examination of the functions and equations.

8.1 / THE FUNDAMENTAL THEOREM

The following theorem is concerned with a precise statement bearing on the questions raised at the outset in §8.

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Ruel Churchill, James Brown



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