

### Exercise

1. In Fig. 17.3, let  $y$  be at the distance  $r\sqrt{2}$  from the center of the circle  $C$  of radius  $r$ . As we trace the outer arc of  $C$  from one point of tangency to the other, through what angle does the ray  $L_y$  turn? Through what angle does it turn as we continue around the circle along the inner arc?
2. The complement in  $P$  of the closed curve in Fig. 17.3 consists of seven connected regions labeled  $A, B, C, D, E, F, G$ . For each region, state the winding number of the closed curve about a point of that region.
3. Do the same as in the preceding problem for the closed curve of Fig. 17.5.



Figure 17.3

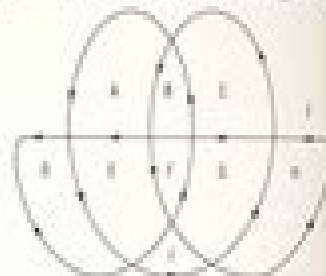


Figure 17.5

### 18. Statement of the main theorem

By using the concept of winding number, we can formulate now the main theorem of Part II.

**THEOREM 18.1.** Let  $f: D \rightarrow P$  be a mapping of a disk into the plane, let  $C$  be the boundary circle of  $D$ , and let  $y$  be a point of the plane not on  $f(C)$ . If the winding number of  $f(C)$  about  $y$  is not zero, then  $y \in f(D)$  (i.e. there is a point  $x \in D$  such that  $fx = y$ ).

What follows is a short intuitive proof. Let  $r$  be the radius of  $C$ . For each number  $s$  such that  $0 \leq s \leq r$ , let  $C_s$  be the circle of radius  $s$  concentric with  $C$ ; thus  $C_r = C$ , and  $C_0$  is the center point  $p$ . Let  $y'$  be a point of the plane not in  $f(D)$ . Then for every  $s$  in  $[0, r]$ ,  $y'$  is not on  $f(C_s)$  because  $C_s$  is in  $D$ , and so the winding number  $W(f(C_s), y')$  is defined for every  $s$  in  $[0, r]$ . Abbreviate it by  $W(s)$ . Consider now the family of closed curves  $f(C_s)$  as  $s$  decreases from  $r$  to 0. Its members begin with  $f(C)$  and eventually shrink down to the constant curve  $f(C_0)$  (i.e. to the point  $fp$ ). Since  $f(C_s)$  varies gradually as  $s$  decreases steadily, it follows that  $W(s)$  is a continuous function of  $s \in [0, r]$ .

How does the winding number  $W(s)$  vary? The answer is not at all, because  $W$  is a continuous function of  $s$  and each value  $W(s)$  must be an integer; it cannot jump from one integer value to another without taking on non-integer values between (see the main theorem of Part I). Thus  $W(s)$  has the same value for all  $s$ ; in particular,  $W(r) = W(0)$ . But  $W(0) = 0$  because  $f(C_0) = fp$  is the constant closed curve. Therefore  $f(C)$  has winding number zero about  $y'$  for every point  $y'$  not in  $f(D)$ . It follows that  $W(f(C), y) \neq 0$  implies that  $y$  is in  $f(D)$ , and to say that  $y$  is in  $f(D)$  is to say that there is an  $x \in D$  such that  $fx = y$ .

One can see how the argument works in the illustration of Fig. 18.1 by following the successive closed curves  $f(C_s)$  as  $s$  decreases; as soon as the two lobes separate (e.g., the third closed curve drawn),  $y$  is clearly in the exterior of this closed curve, and therefore the winding number is zero. Notice that this agrees with the result obtained for Fig. 17.5.

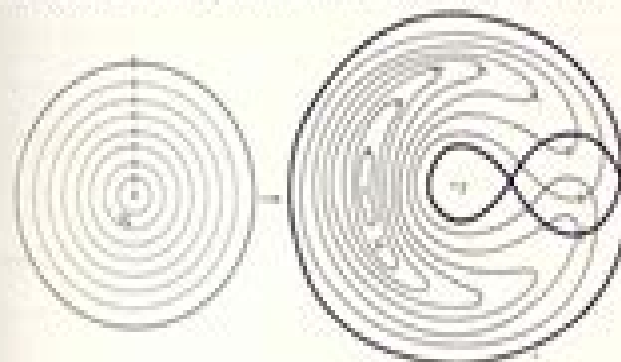


Figure 18.1

### Exercise

1. If the closed curve in Exercise 1 of Section 17 is the  $f(C)$  of a map  $f: D \rightarrow P$ , which of the complementary regions  $A, B, \dots$  must lie in  $f(D)$ ?
2. Answer the analogous question for the closed curve of Exercise 3, Section 17.
3. Let  $f: P \rightarrow P$  be a mapping of the plane into itself that is a simple fold along a diameter of a disk.
  - (a) What is the image of the boundary circle  $C$  of the disk?
  - (b) What is the winding number  $W(f(C), y)$  of points  $y$  in the image of the disk?

# First Concepts Of Topology The Geometry Of Mappings Of Segments Curves Circles And Disks

**W. G. Chinn, Norman Steenrod**



## **First Concepts Of Topology The Geometry Of Mappings Of Segments Curves Circles And Disks:**

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