

15-2

Consider the induction  $\mathbf{B}$  produced by an infinitely long straight current  $I$ . Choose a convenient closed path  $C$  in the plane perpendicular to the current and which does not enclose the current. Show by direct integration that (15-5) is correct in this case.

$$(15-5) \quad \oint \mathbf{B} \cdot d\mathbf{s} = 0$$