(3) Scos ne dx

Let In = Slos" xdx

where nis positive Integer.

In = feos n-1 x (cosn) dre

Applying the method of integration by point, negot

In = (Ohn-1) x (sin >2) - S(n-1) cos n-2 x (-sin >2) sin x dx

z Cosn-12 (sinx+(n-1) scosn-2 x sin2 x dx

2 cos n -1 x sin x + (n-1) f cos n-2 x (1-cos2x) dx

= cosm-1 x sin x + (n-1) S (cosn-+x - cosnx) dx

2 cosn-1 jesin x + (n-1) f (9sn-2 x - (n-1). scosn x dx

In z Cos" 3c Slax + (n-1) Tin-2 - (n-1) In

In +(n-1) In = cosn-12 short (n-1) In-2

In (n-/+1) = 605 n-1 > (Sin > C + (n-1) In-2

nIn = Cosn-1x Ginx+(n-1)In-2

In. 2 1 605 n = 1 x Sih x + (n-1) In-2

This is the reduction formula for floringen