3.2. Trigonometric Integrals Thursday, February 17,1018 12:58 PM

I. Preliminary form: Sin & conxdx on Scon & sinx dx

T. Sin x cos x dx (ase 2: n: power of cosine is odd

(are 3: m and n one even.

Case 1: n: power of recart in even

Case 2: m: power of tangerd in odd

Other cases.

 $\overline{\mathbb{IV}}$. $\int \sin(mx) \sin(nx) dx$; $\int \cos(mx) \cos(nx) dx$ Sin(mx) cos(nx) dx

2 product - to - sum trig identities