TRIG INT. TECHNI DUES $\int sin^{n}(x) \cos(x) dx \qquad look for odd power$ u = "other function" $eg. \qquad \int sin^{n}(x) \cos^{n}(x) = \int sin^{n}(x) \cos^{n}(x) \sin(x) dx$ $(1 - \cos^{n}(x))$ (sec(x)tan(x). (17 + 612 = 1 (17 + 612 = 1 special integrals 2 Sec (x) dx = Sec x · secxdx = secxtanx- (sectan x dx)

3 Sec (x) dx

V=tanx du=secxtocx = secxtorx - (secx (secx-1)dx = sector > - (secx - (secx add integral of 2 (Sec (x) dx = sector » Sec(x) dx = sector x - (secx = sector x - ln | secx +tanx| + c