extra example: Note: Sin (kx) dx , (let u = kx 2, du ck, dx = du kx = Esin(wdn = - k cos(w+c = - k cos(kx)+c In general  $\int f(kx) dx = \int f(u) k du = \int f($ Je Tx dx = 7e Tx +C

eg. S sec2(47x) dx = 47 fan (47x) + C