quiz 11 - yohandı (1200 40025) t u=x dy=ex du=1 v=ex 1a. gx3ex dx.

Det u=x3 dx eex

du=3x2 v=ex = $\chi^3 e^{\chi} - 3(\chi^2 e^{\chi} \lambda \chi)$ let $u = \chi^2$, $dy = e^{\chi}$ $dy = 2\chi$ $v = e^{\chi}$ = x3ex-3x2ex+3.2 (xexdx) b. Sec 3x tan3x dx. Let u= secx du: secrtanx X70 = (u2(N2-1) du $= \frac{1}{5} \sec^{5} x - \frac{1}{3} \sec^{3} x + C$ $= \frac{1}{5} \sec^{5} x - \frac{1}{3} \sec^{3} x + C$ C. Se Joseph y)2 let livy)= tan A = Su = Sec2 + do = ln (sec+ tan+) | 7/4 = [ln (s2+1)]

= x3ex - 3x2ex + 6xex - 56exdx = 1x3ex - 3x2ex + 6xex - 6ex4C d). lim (1-005(3x1) smc9x) 2n(1+2x) = Rim sin 9x - [sm 9x cos3x] ln[142x] knn singx - 2 sm 6x - 2 sm 12x In(1+2x). 6 apply 1 +10 pital 9 005 9x-26 005 6x - 1200512x 2 7×+1 = lnn x + 0 = 10 (2x+r) = 10 (2x+r) = 10 (2x+r) = 10