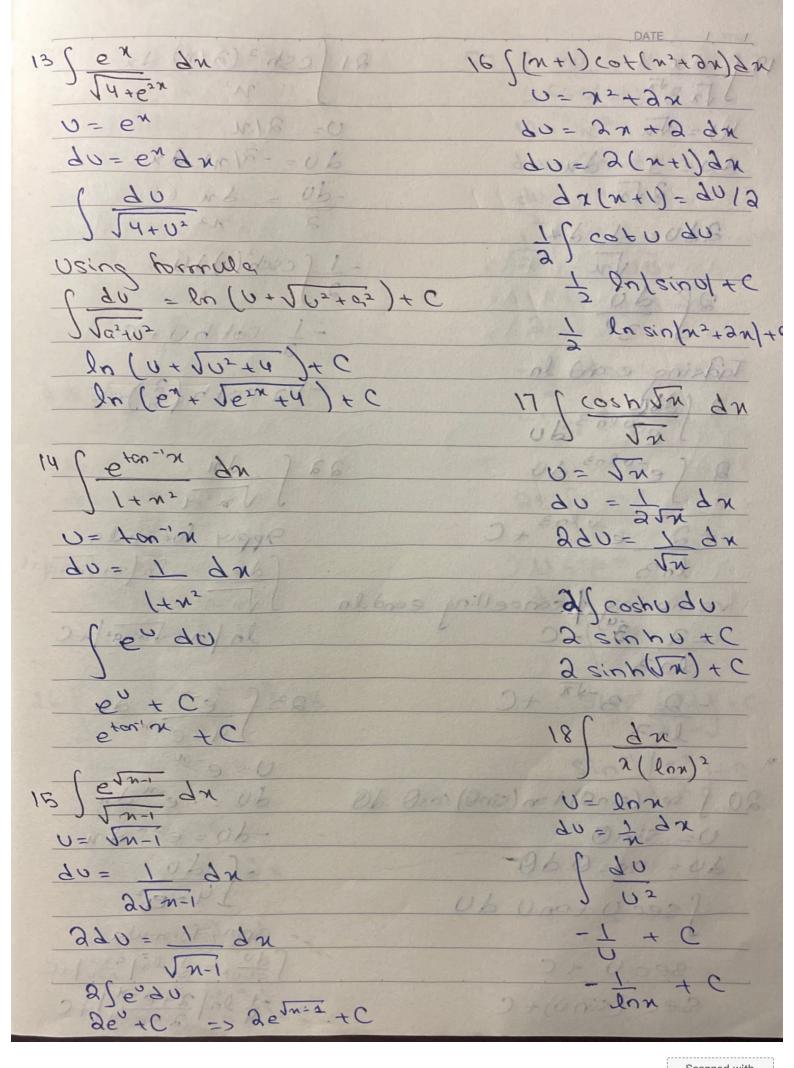
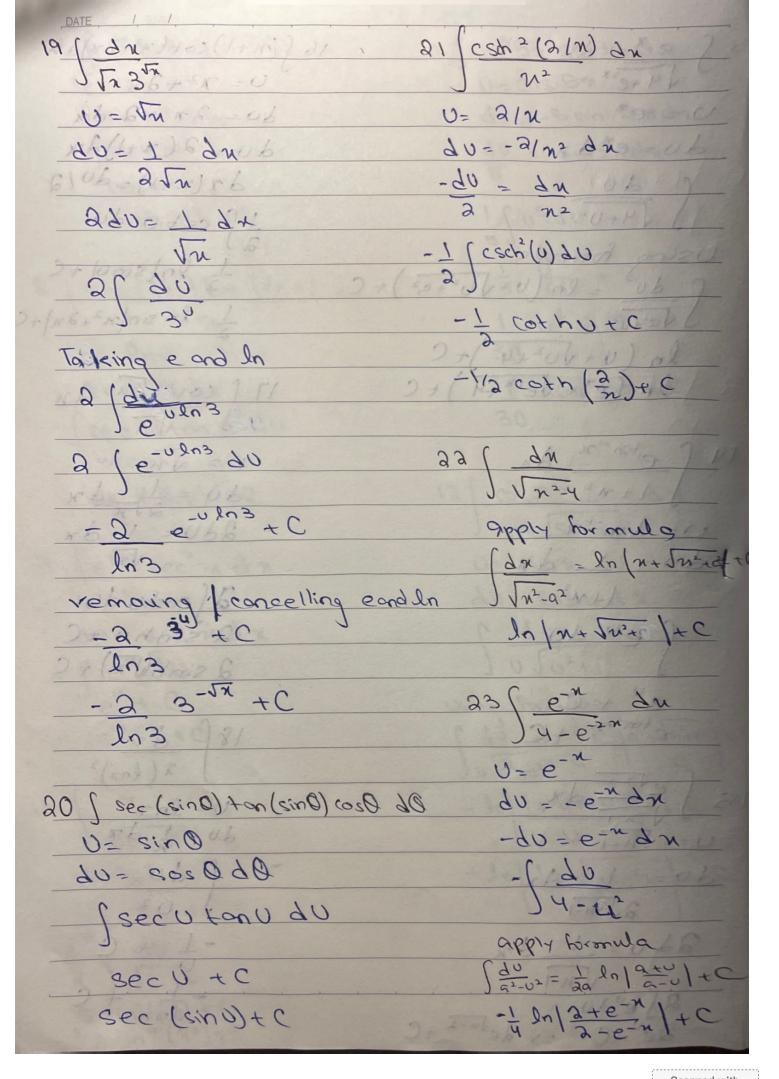
Fx:7-1 Q Engloate the integrals by making appropriate a substitution and applying the formulas reviewed in this section. U6 (0) HAR? 1 (4-2x)3 dx 4 (4n ten (n2) dn 149x - 1923 gx do= andx xdx = du/2 4n - 2ny +C 4) ton (v) do 4x - 124 +C 2 In Becul +C 2 In secuil +C a /3/4+249x 1et U = 4+2x 90 = 99x sin 3x dr d2 = du/a 2+ c053x 310 20 U= at cos3x du = - 3 sin 3x dx sin3ndn = - du/2 3 U'2+1 + C -1 <u>3</u> <u>3</u> <u>0</u> 3/ U3/2 + C -1/2 ln U+C - 13 ln (2+0037)+(()3/2 + C (4+2x)312 +C 3 In sec2 (n2) 2n 40 = 2ndy of = ton 1 1 + C ndn = 20 1 for 3 x 1 (sec2 (v) du -ton U + C 2 /2 ton (22) + C

7 (ensinh (en) dn 11 (cos 5x sinsudn letube en solomond all ports of U= cos Sn duz -ssin 5 ndz 40= en 4x -d0 = sin 5 n dx(sinh (u) du coshotC cosh ex +C 8 [Sec (lon) ton (lon) dn U= lin dol 6 -1 cos65n+C du= Inda secutor u du secut C Sec (lon) +C a (etona sec nda U= Sign Ul du= cosndn U= toon du= secindx J U J U 2 +1 Using formula d0 = -1 ln | q + Ja+ 12 υ ∫α² + 0² α | 0 - In 1+ 1/1+U2/ + C U= n2 U= ndx 1/2 sin-1(0)+C 1/2 sin- (n2)+C





24 (cos(lnn) dn U= 22 19 612000 U= lnud +900 do= gndx 40=1 dx do = ndn of cosurdo 2 / 20 - 0 b + sin U & C 1 Sino do 68in (low) 4 C -1 (050+0 U=eng 28 <u>e</u> 2x du=endrala JVI-02-1A Sin'U+C sin-'(ex)+C 1 T4202 / --240 = 1 dx a (sinh(u) du -2 cosh U+C - 2 cosh (""2)+C

