Victor Ramos
Lista Semana 12 Sa) $S(x^3+5) dx = \frac{x'}{4} + 5x + C$ b) $S(x+\sqrt{x'}+1) dx$ $= \frac{x^{2}}{2} + \frac{x^{2}}{3} + x + C = \frac{x^{2}}{2} + \frac{2x^{3}}{3} + x + C$ e) $\int_{X}^{4x^{2}+1} dx = \int_{X}^{4x^{2}} \frac{1}{x} dx =$ = 5 4x + bax = 5 4x3 + bax = x4+bnx+C d) S(2 senx + sec x + e > x + s) dx = Sasenxort Seconst Je 2x+5dx > U=2x+5 du=2 = 2dx=2dx = -2 cosx + tax + Se" kut C =-2cosx + tgx + 2Se2 du + C =-2cosx + tgx + 2e2 + C =-2cosx + tgx + 2.e2x+5+ C 6) Reyx ox to seasonth ox COSY = Cost-Sont 14fcanyal COOX = 1-Sony - Sen's COST 27-5000 = S-COSY + X =-Scosor+X COOX-1=-25005× = - 1/2 Senax + X - COSOX+1 = Sen'x

| Victor Ramos |
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| |
| 4) Sox(8+1) dx + Su4 da |
| 21= x21 = 21 + C = (x21) 5 + C |
| $\frac{dy}{dx} = 2x$ |
| du-2x dx |
| |
| 9) 5 x dx + 5 x dx 2 x 2 x dx + 25 5 x dx |
| 21-x2-4 +5 = +5 = - du = +5. ln/24 = ln/x2-41 +C |
| due ox dx |
| |
| h) $\int Sen^2 x \cdot Cos x dx \Rightarrow \int u^2 du \Rightarrow u^3 + C = \frac{sen^3 x}{3} + C$ |
| du = Cosx dx |
| issenx dx = D== du = D-1. S== du = D-1. S== du = D-1. S== du |
| $\frac{21 - \cos x}{21 - \sin x dx} = \frac{1}{2} \cdot \frac{1}{2}$ |
| |
| f) stax secx dx = Su.du = 2 + C = tax + C |
| dv-sech dx) |

Victor Ramos K) Jandy D Jan. dx. 3 + 3 5 12 dx 13 12 dx 2=x3+1 23. Just du + 3. 25 + 3. 245 + 3. 2401 D2701+C + 2.Tx3+1 +C * dx + 2 2 2 m) farcsent de pju.du = 2 +C +Darcsen2x +C du= Torcsen X) Sex. J dx = 1/5 1) 1/5. Inju + C => Inj2+5e1 +C U=2+50x du=serdx 为如=exdx

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Victor Ramos $S(SX+2)^6 dX = S(S) = S(SX+2)^6 dX$ U=SX+2) DJ. U-5 +C DJ. J. Sus +C D-25us +C du=5dx Sou= dx -251CY+216 + C P) (1+4x dx + 1+x2 + 4x + 1+x2 + 4) x + 1+x2 + 4 x + 1+x2 to arctgx + 4. [x dx to arctgx + 4. 1/2. [1] du =Darctax+2lniw+C W=J+X2 Darctgx +2, ln/3+x/+C du = 2x dxSdu= X dx