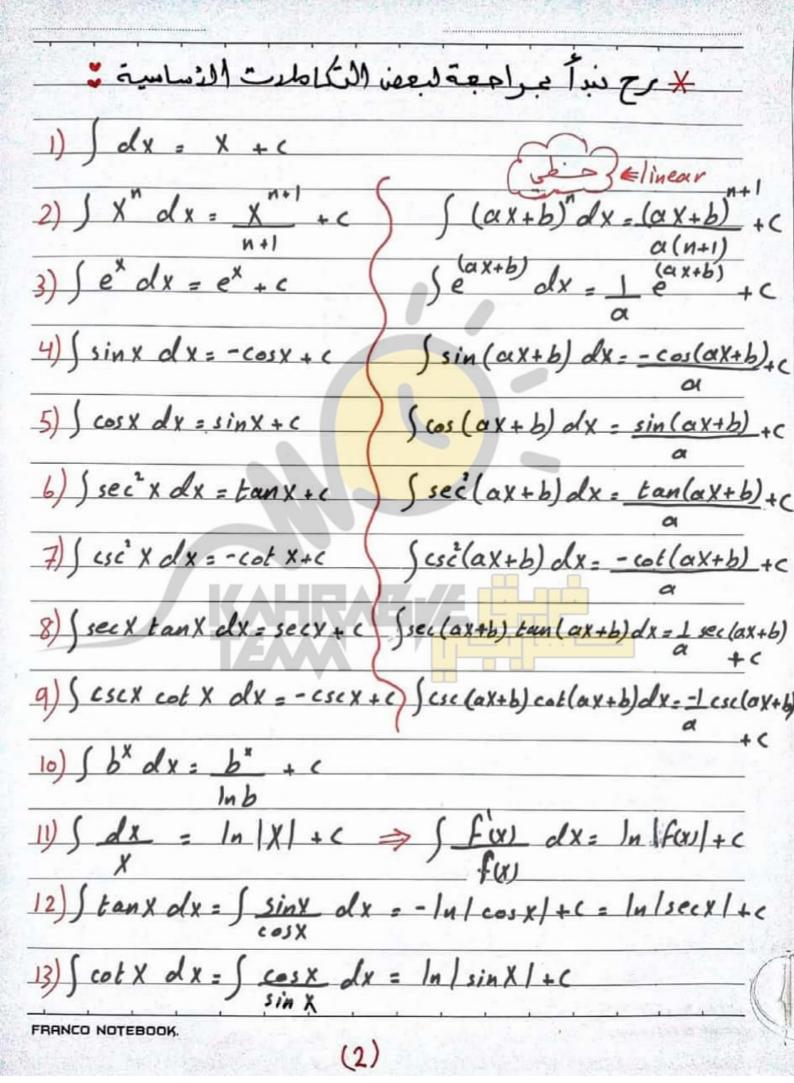
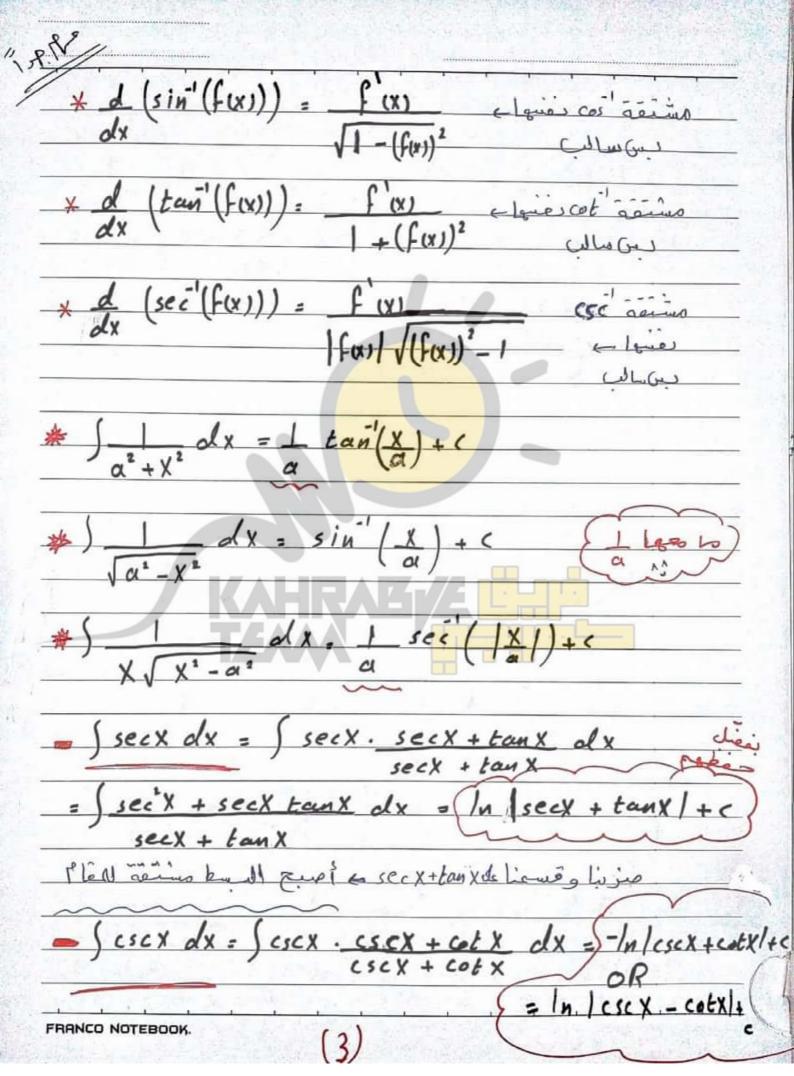
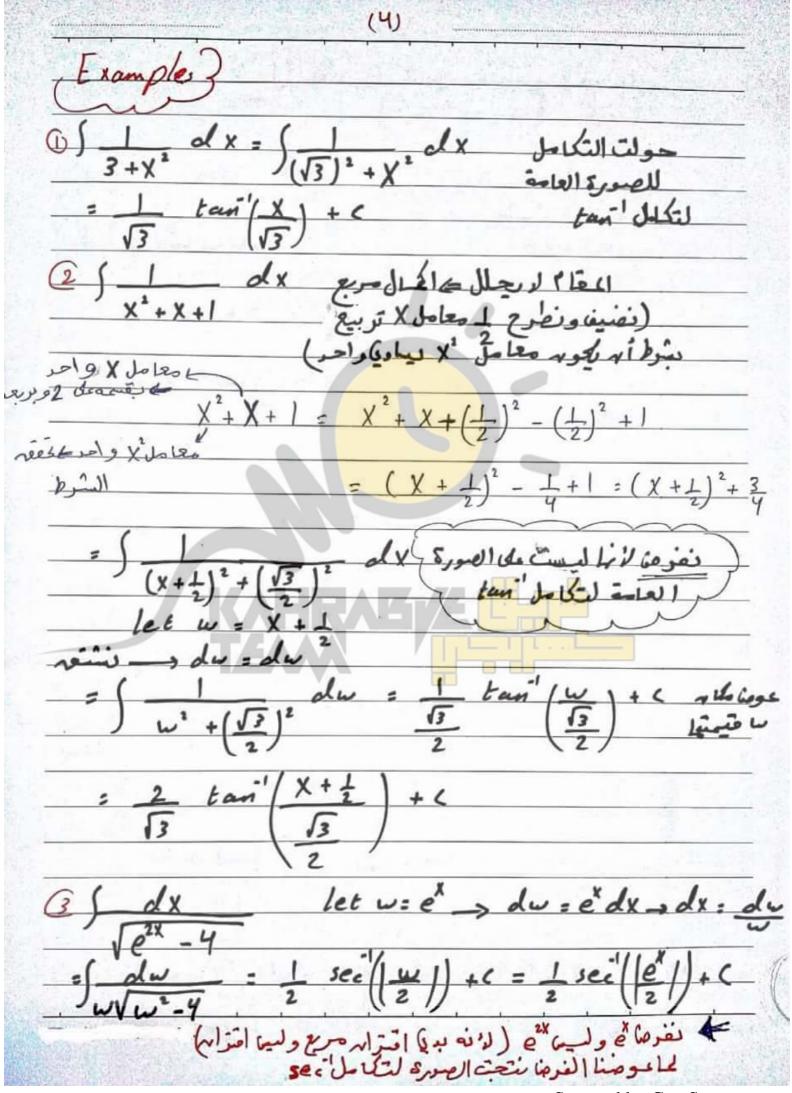
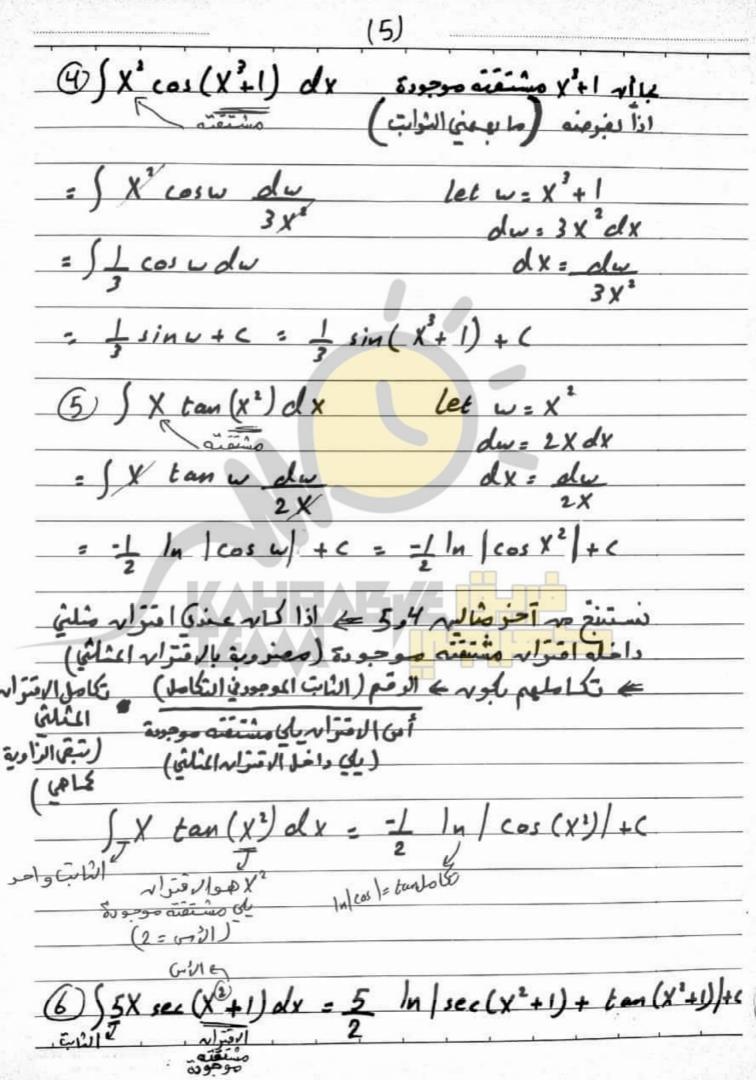


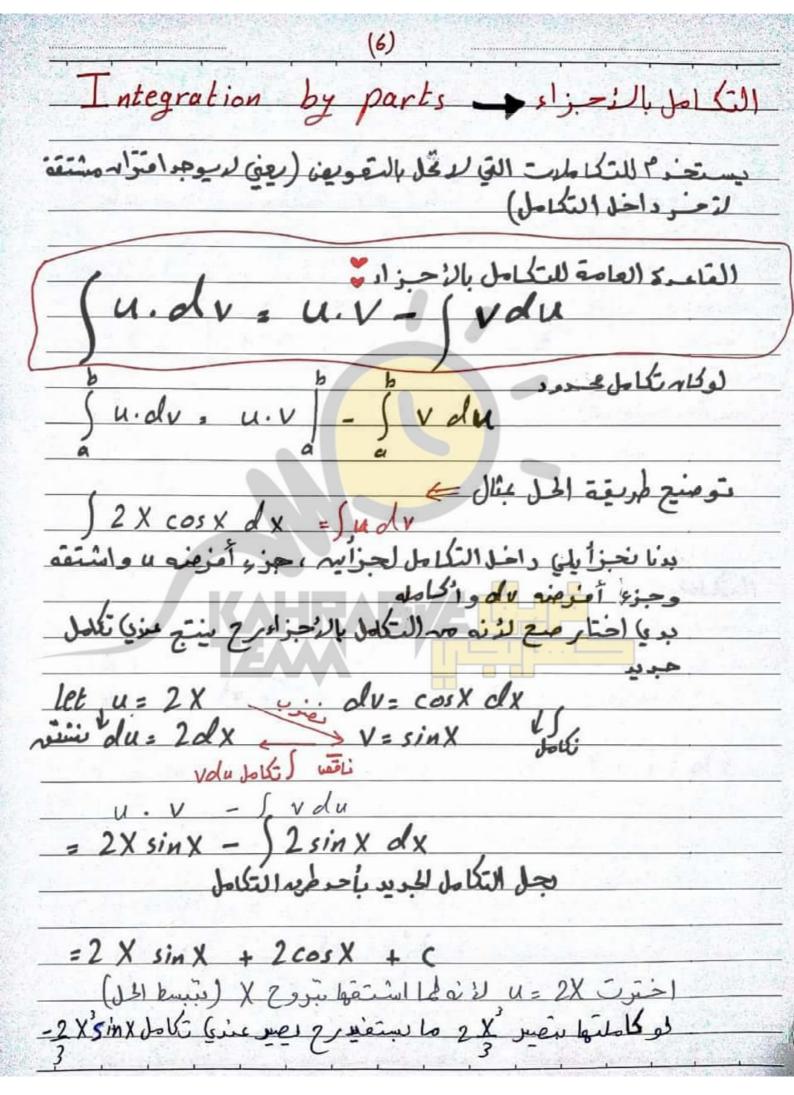
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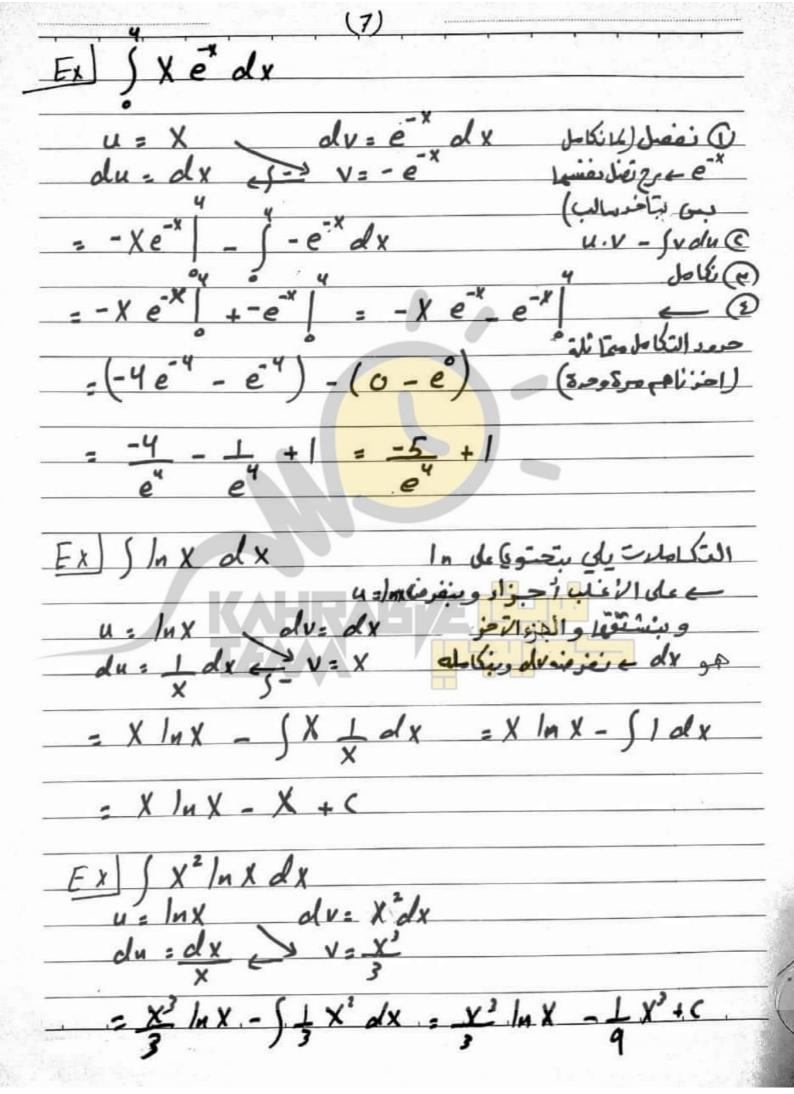


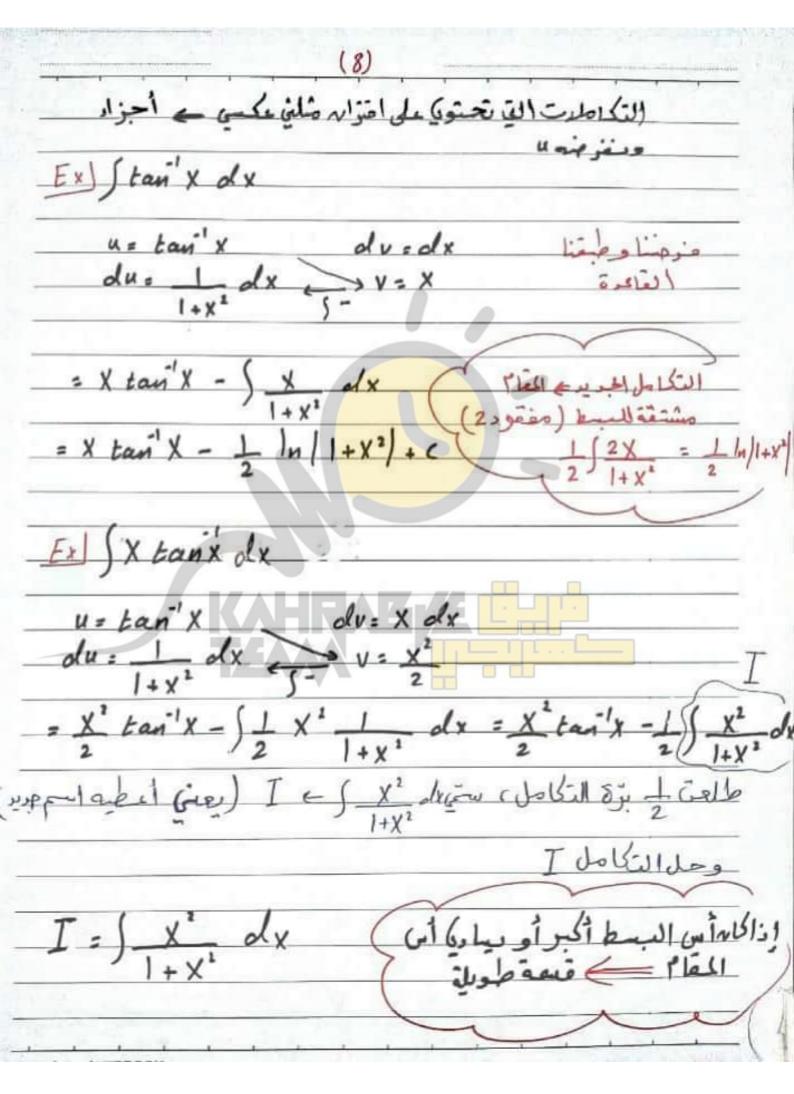


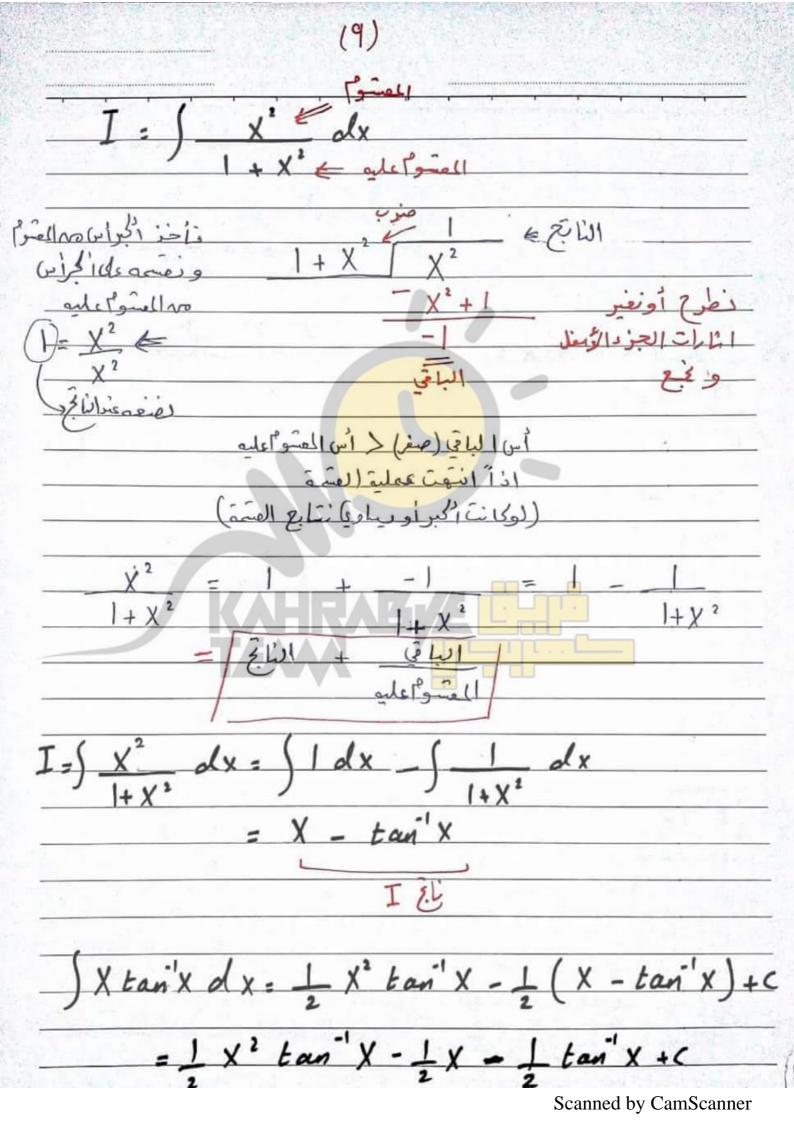


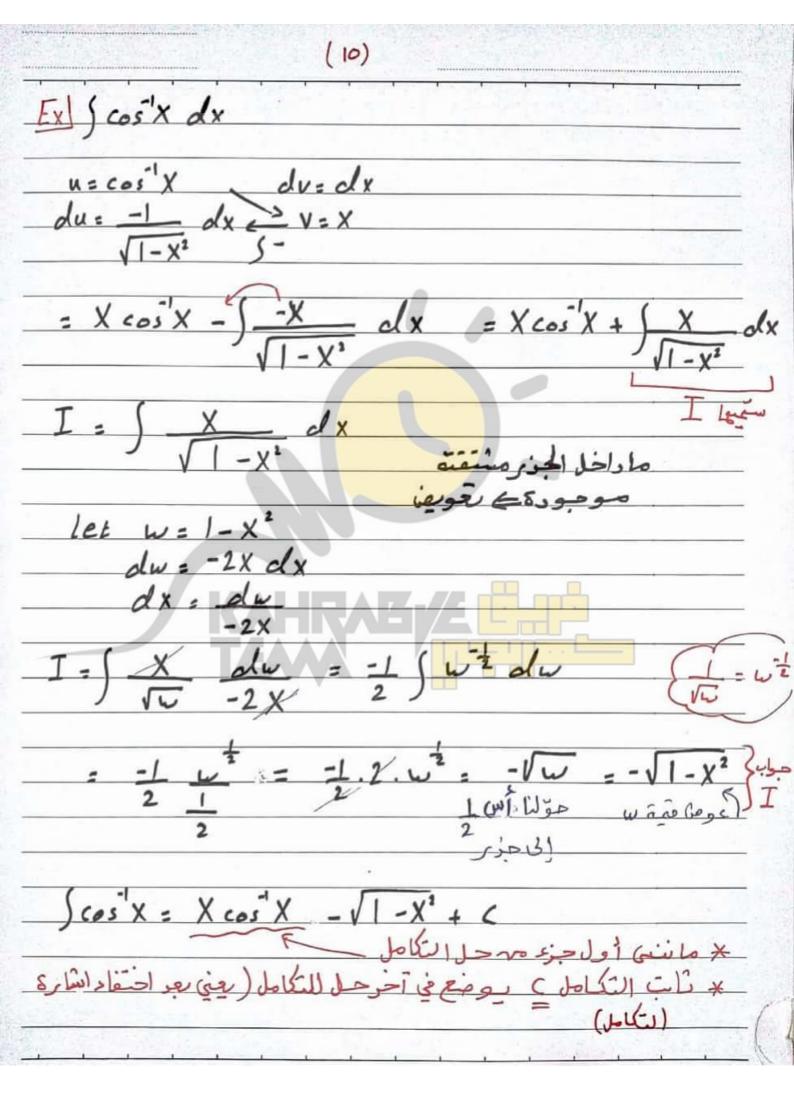


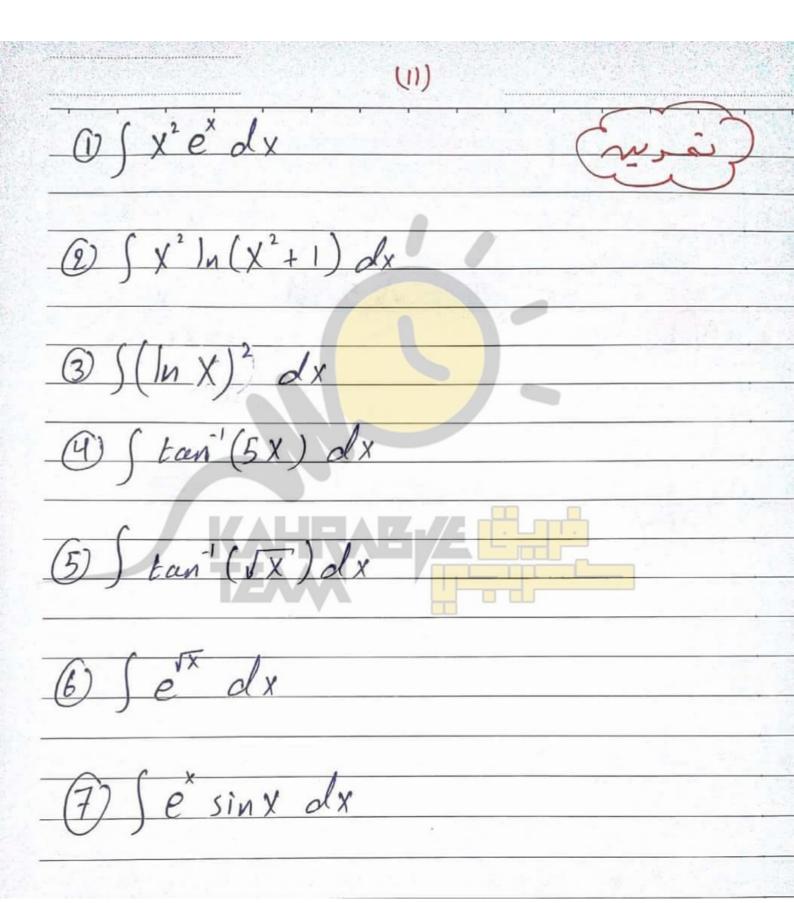


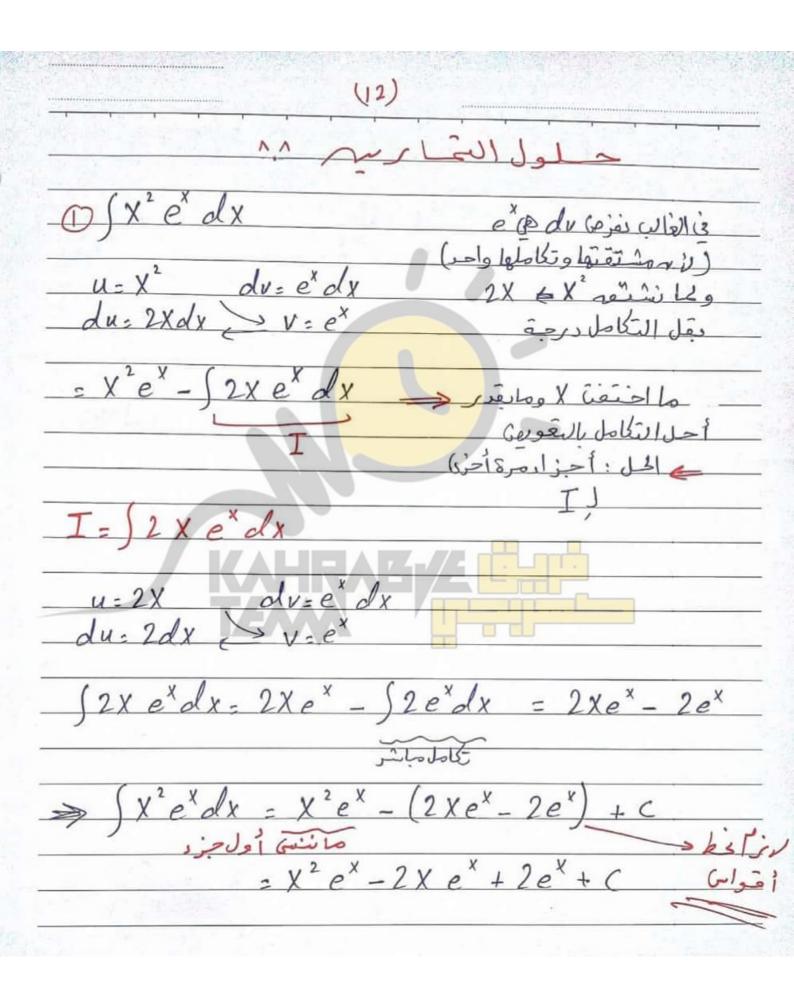


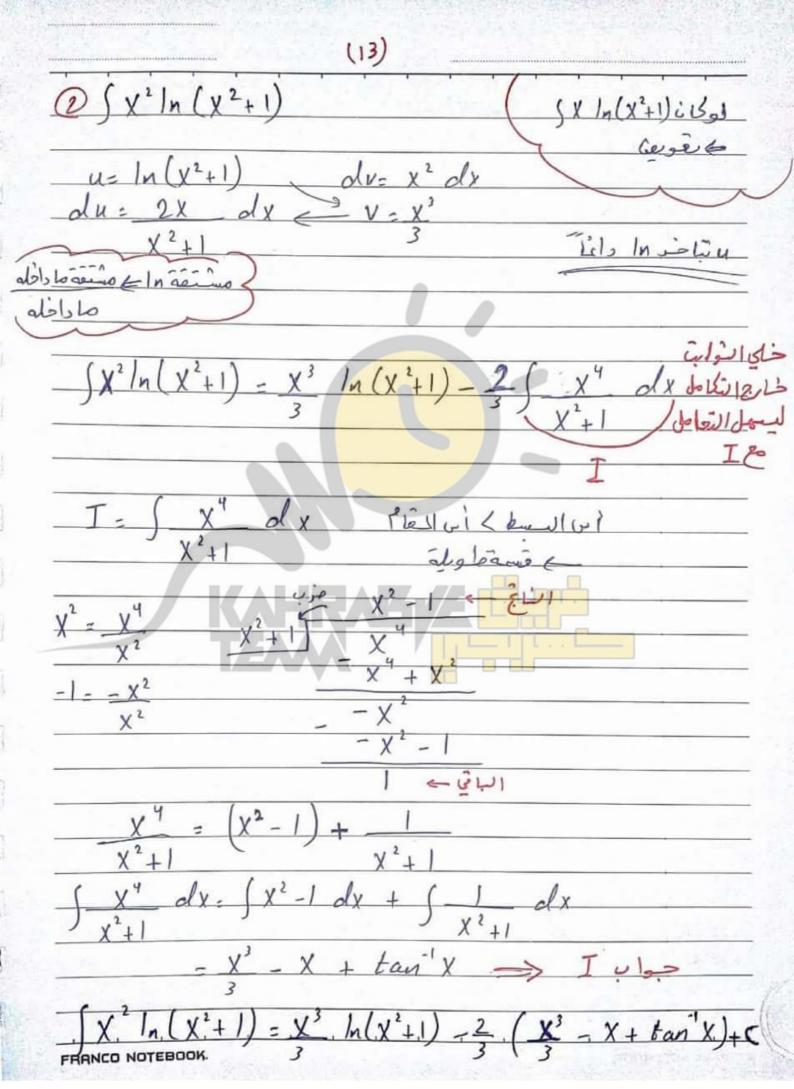


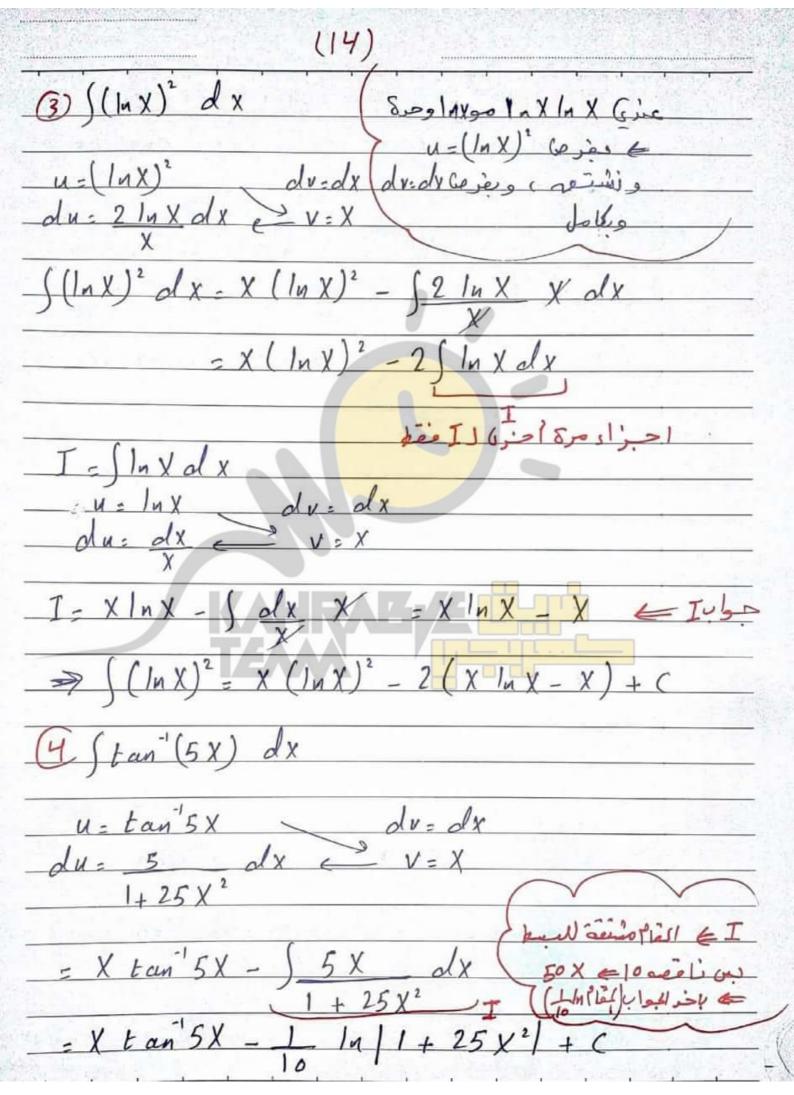


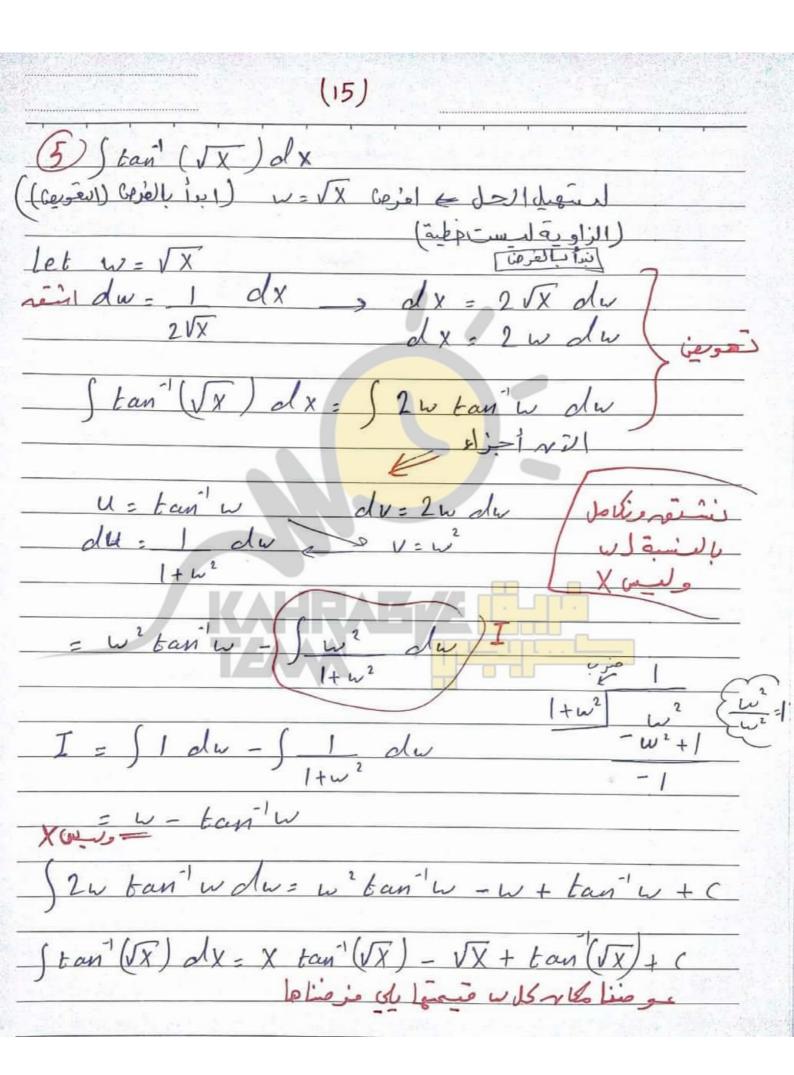




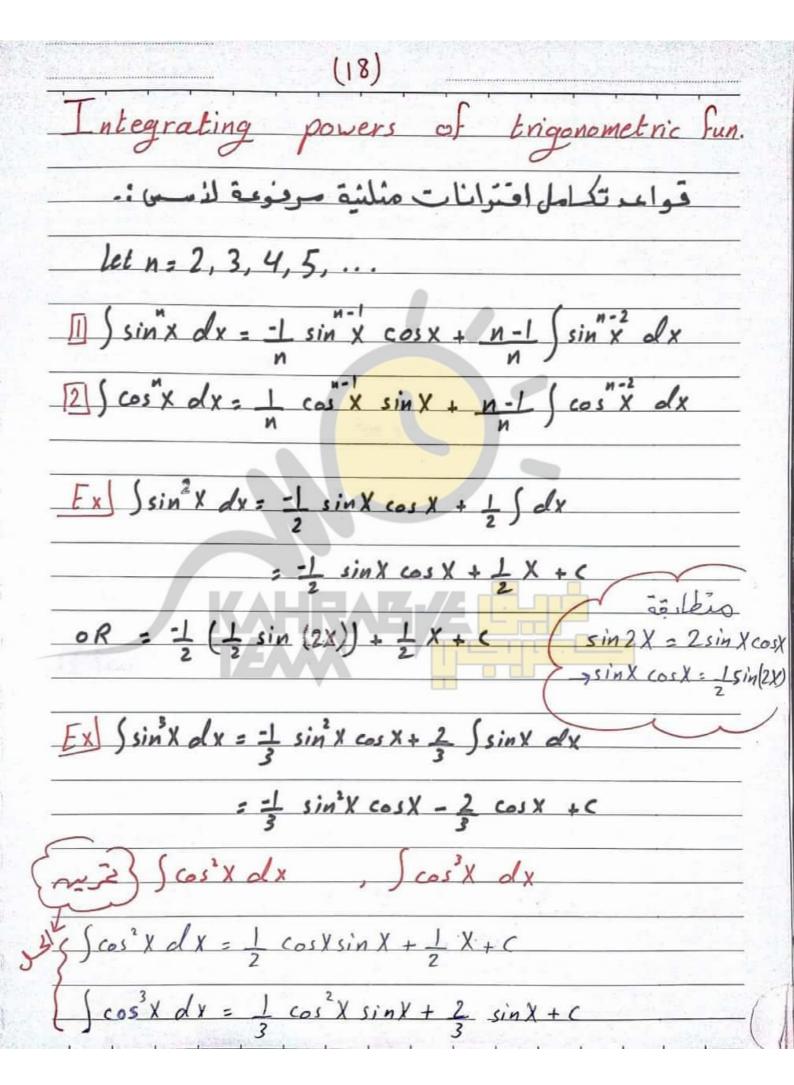


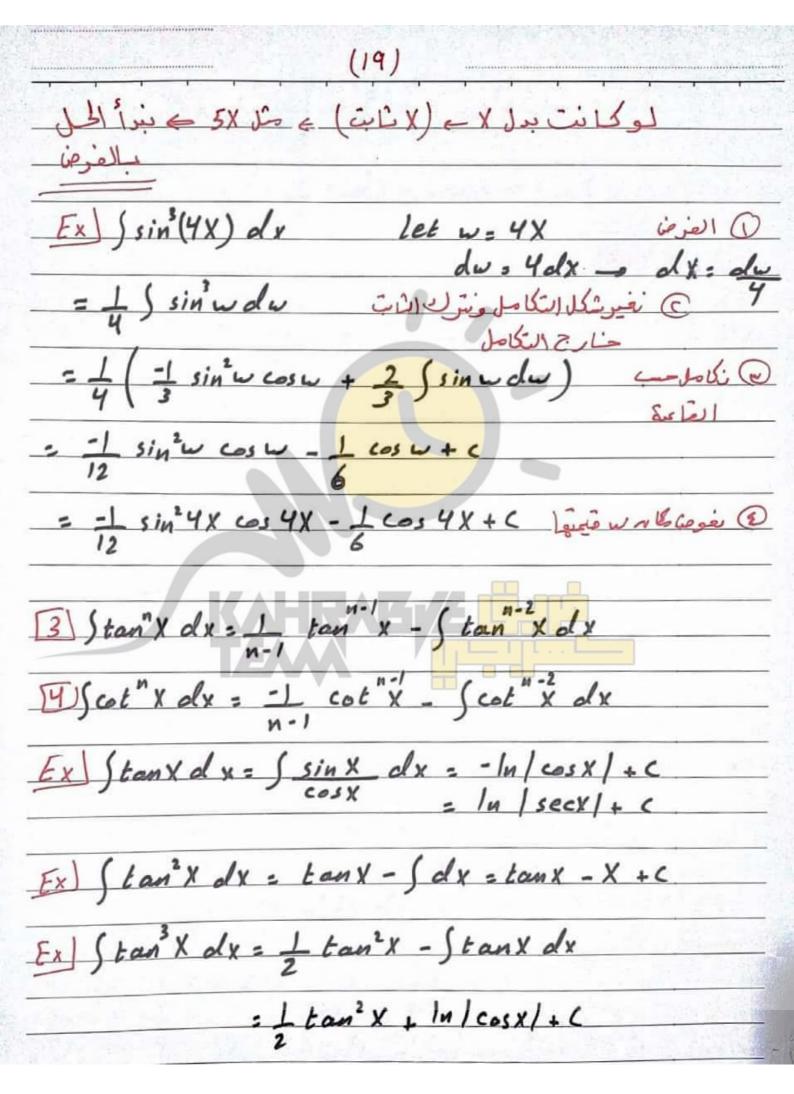


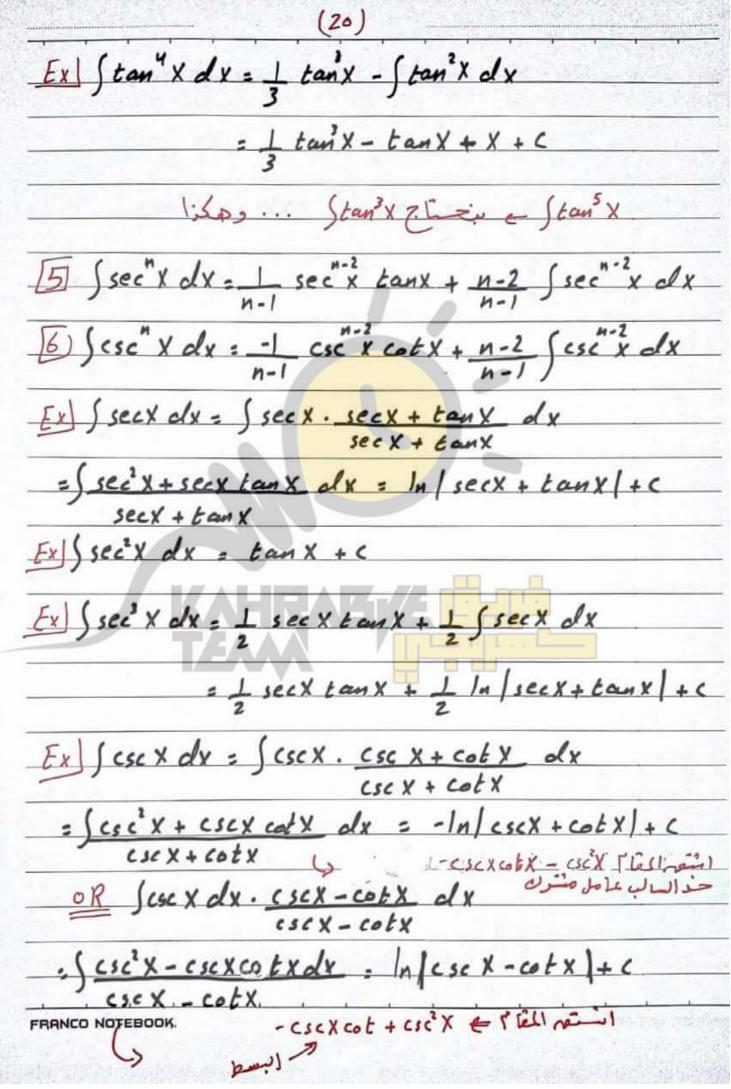




Ex) (ex sin (3x) dx Sex sin(3x)dx = 1 ex sin(3x) - (3 e2x cos(3x)dx $u = \cos(3x)$ $dv = \frac{3}{2}e^{2x}dx \quad \text{Gioison}$ $du = -3\sin(3x)dy \qquad v = \frac{3}{4}e^{2x}$ Sex sin(3 X) dx = 1 ex sin(3 X) - 3 ex cos (3 X) - 59 ex sin(3 X) ok 4 (13 /ex sin(3x)dx = 1 ex sin(3x) - 3 ex cos(3x)) Jesin(3x) dx = 4 (1 esin(3x) - 3 escos(3x)) + (= {Xcos w dw عنداحذ ع و نحامل دوّار الله السابقة) - (دفع) طريعة الحل السابقة) 6(1) = = 1 Xcos (In(X)) + 1 Xsin(In(X)) + C $\frac{Ex}{(x+1)^2} \begin{cases} x e^x & dx \\ (x+1)^2 & du = x e^x \\ du = x e^x + e^x dx \end{cases} \qquad \frac{dv = (x+1)^2 dx}{(x+1)^2}$ $= -x e^x + x e^x + x e^x + x e^x dx \qquad (x+1)$ $= -x e^x + x e^x + x e^x + x e^x dx \qquad (x+1)$ $= -x e^x + x e^x + x e^x + x e^x dx \qquad (x+1)$ $= -x e^x + x e^x + x e^x + x e^x dx \qquad (x+1)$ $= -x e^x + x e^x + x e^x + x e^x dx \qquad (x+1)$







Ex) Scsc'x dx = -1 cscxcotx + 1 Scscxdx = -1 cscx cotx - 1 /m/cscx + cotx/+ c Ex) Stan's (4x) dx let w = 4x

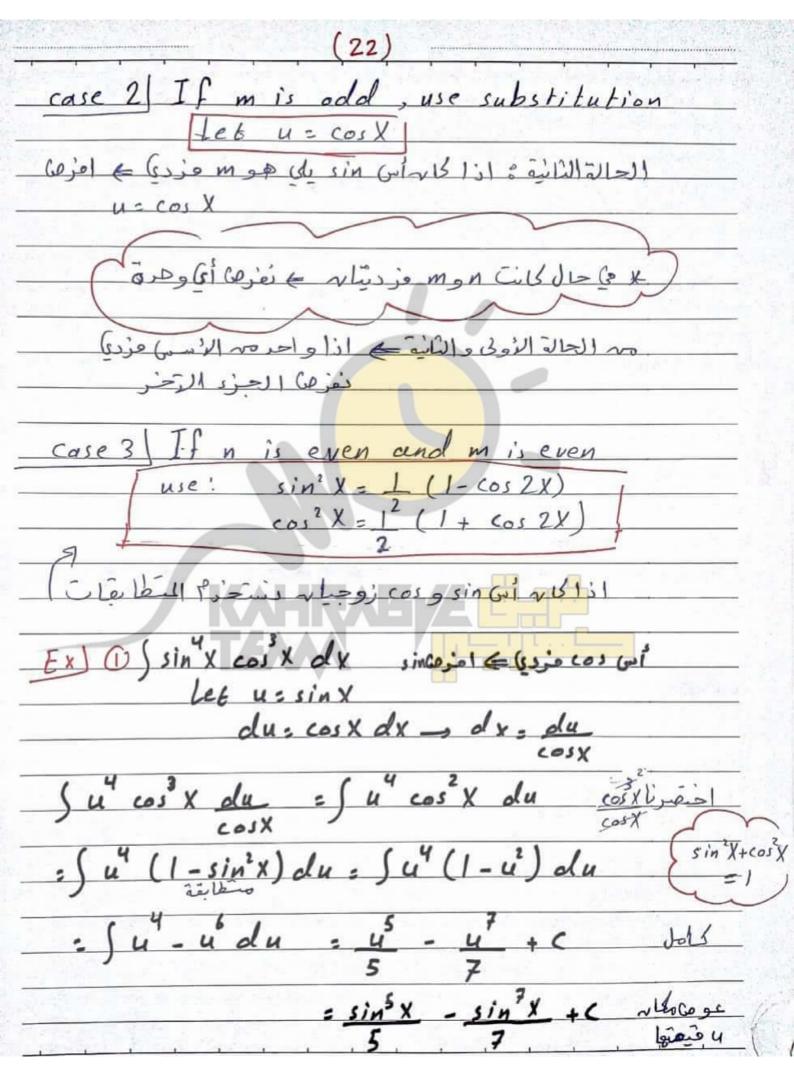
dw = 4dx

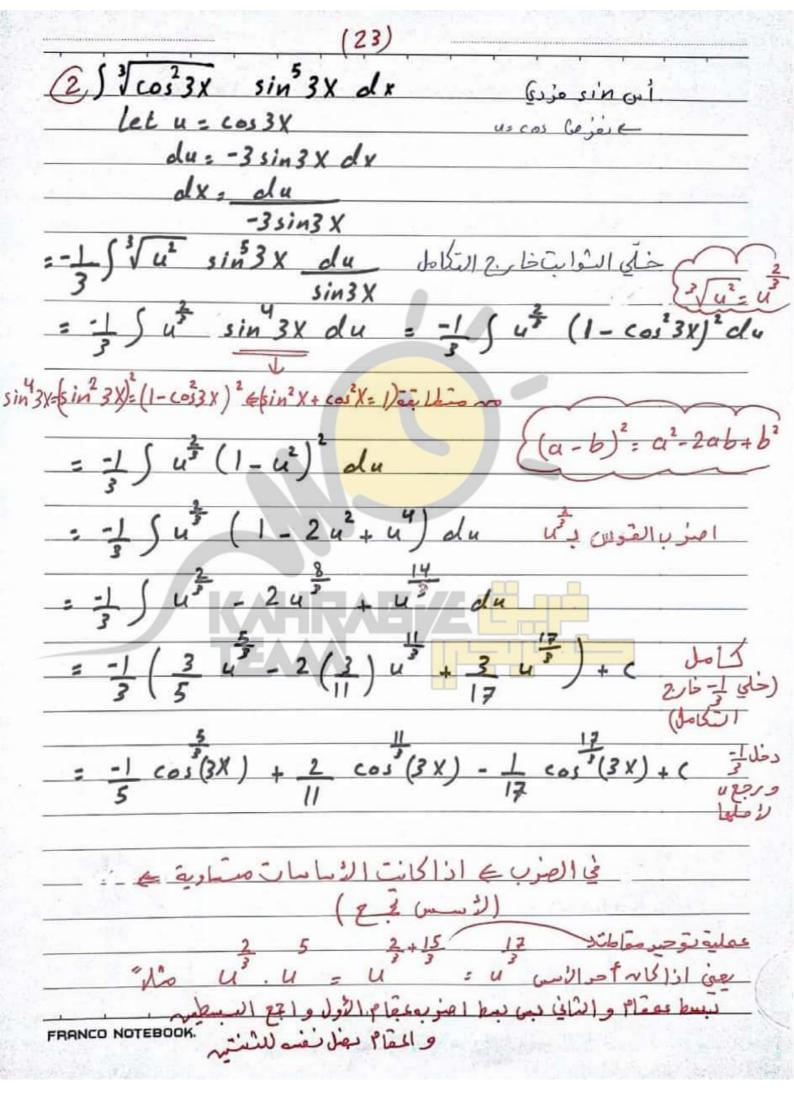
= 4 Stan's w dw dx = dw = 1 (1 tan w - Steen w dw) = 4 (1 tan w - In/cosu)+c = 1 tan24x - 1 /n/cos4x/+c عنامج وعة أشكال جنا نعرف طريقة تكاملها حمقانهات Integrals of the form I Sin x cos x dx case 1 If n is odd "n=1,3,5,7,9,..."

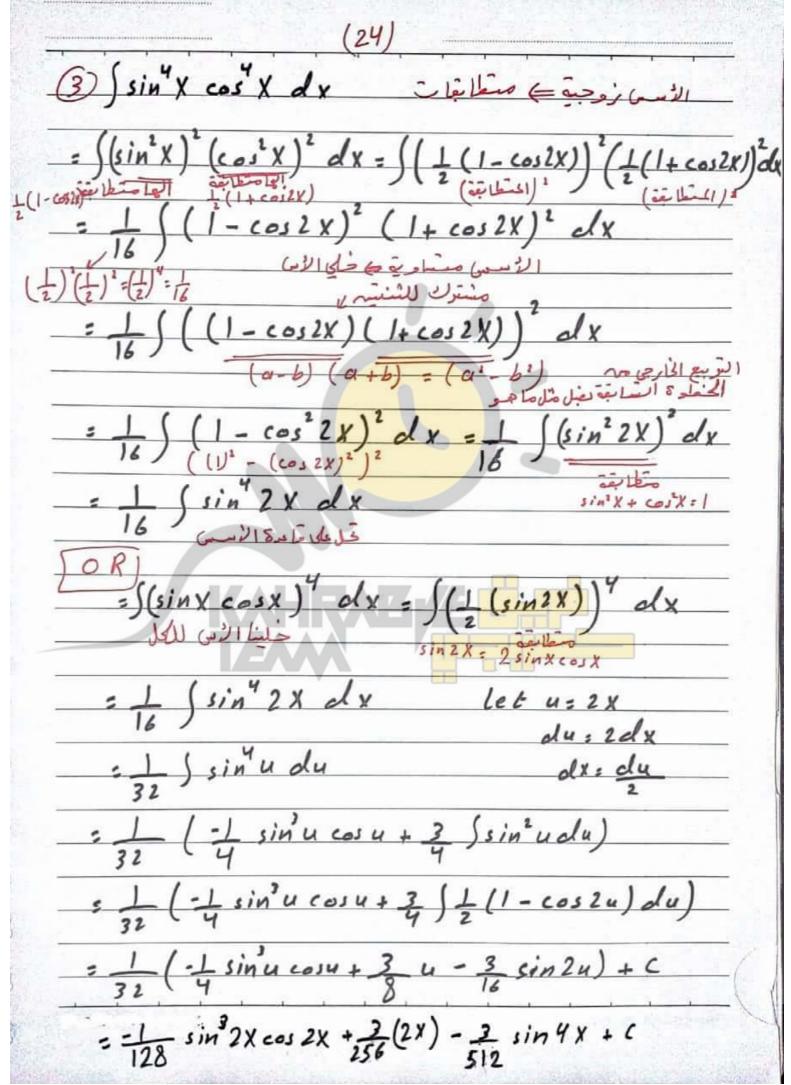
use substitution let u=sinx |

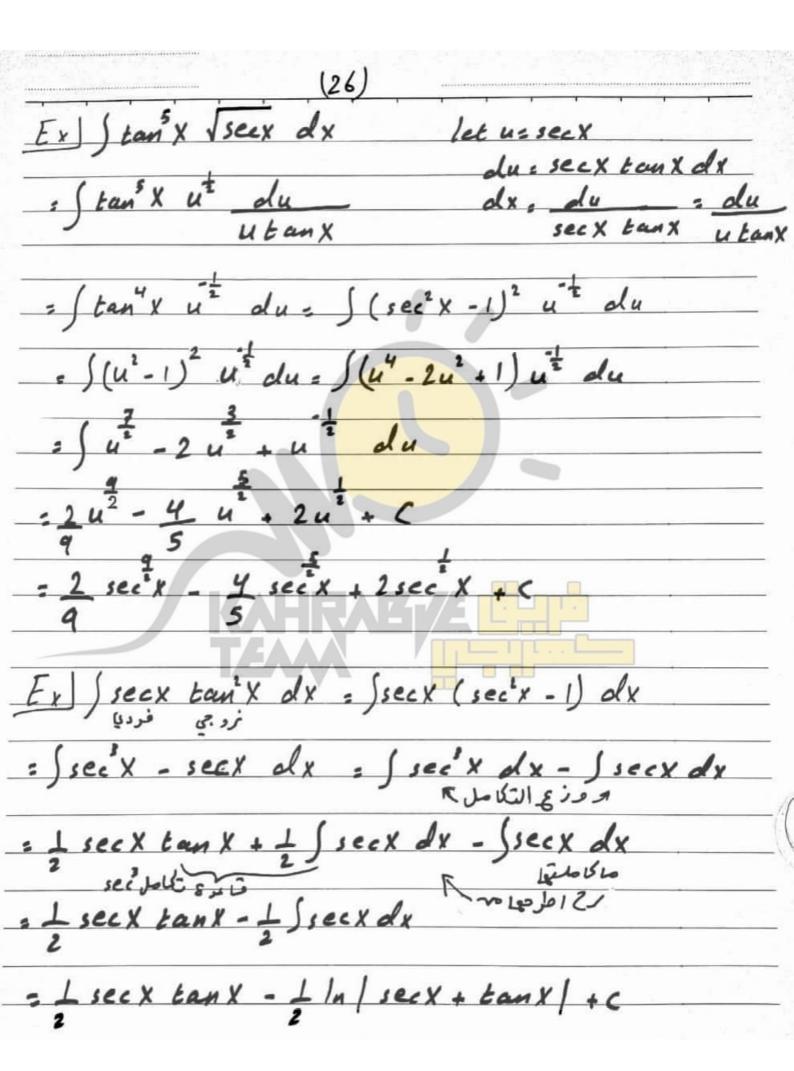
Cejele u=sinx |

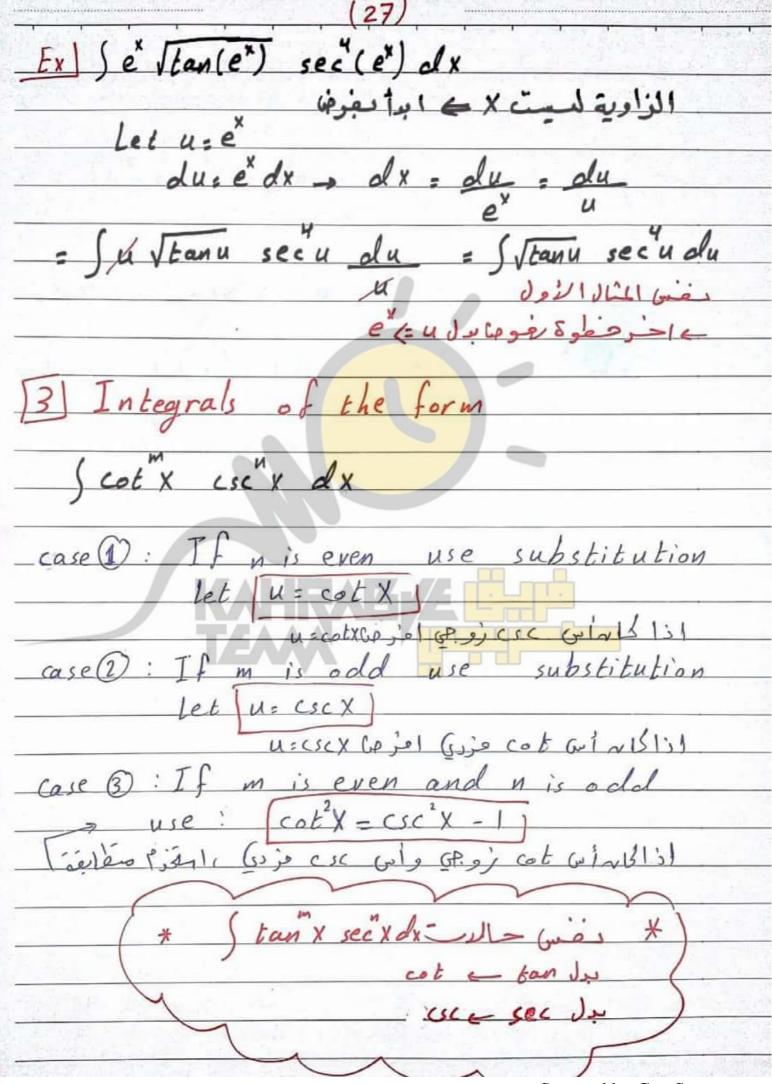
u=sinx



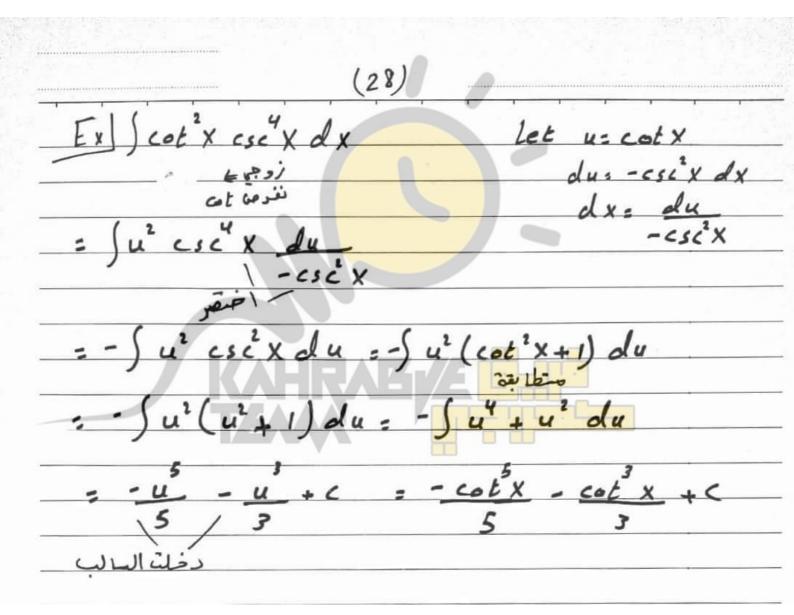


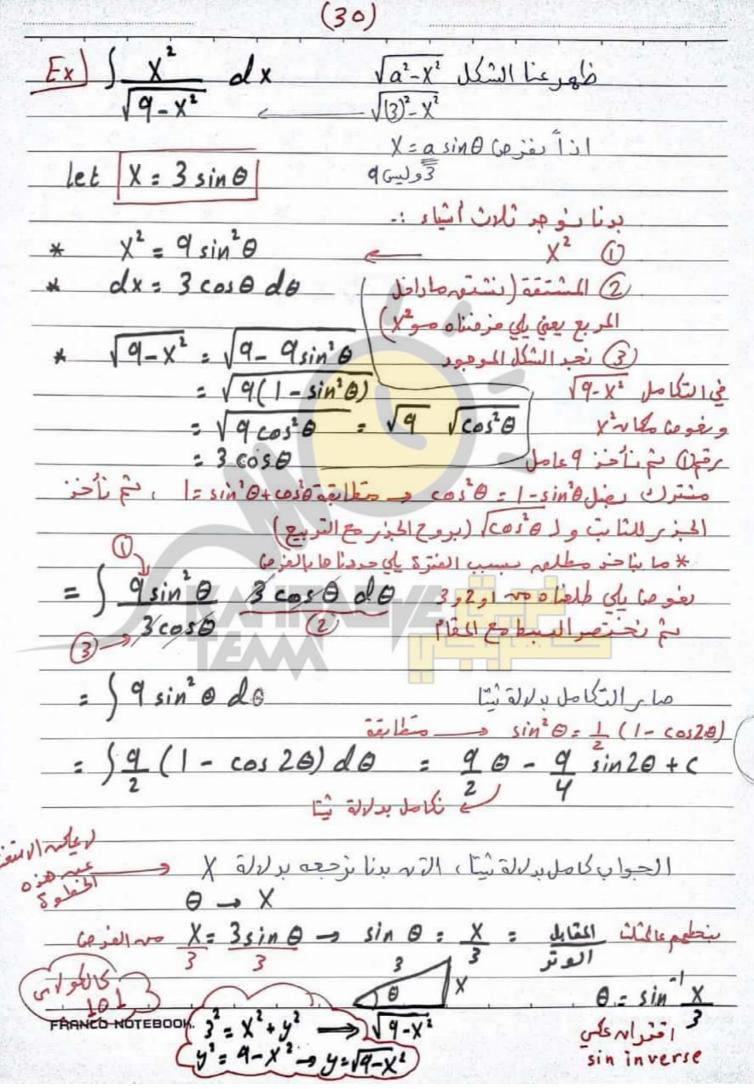


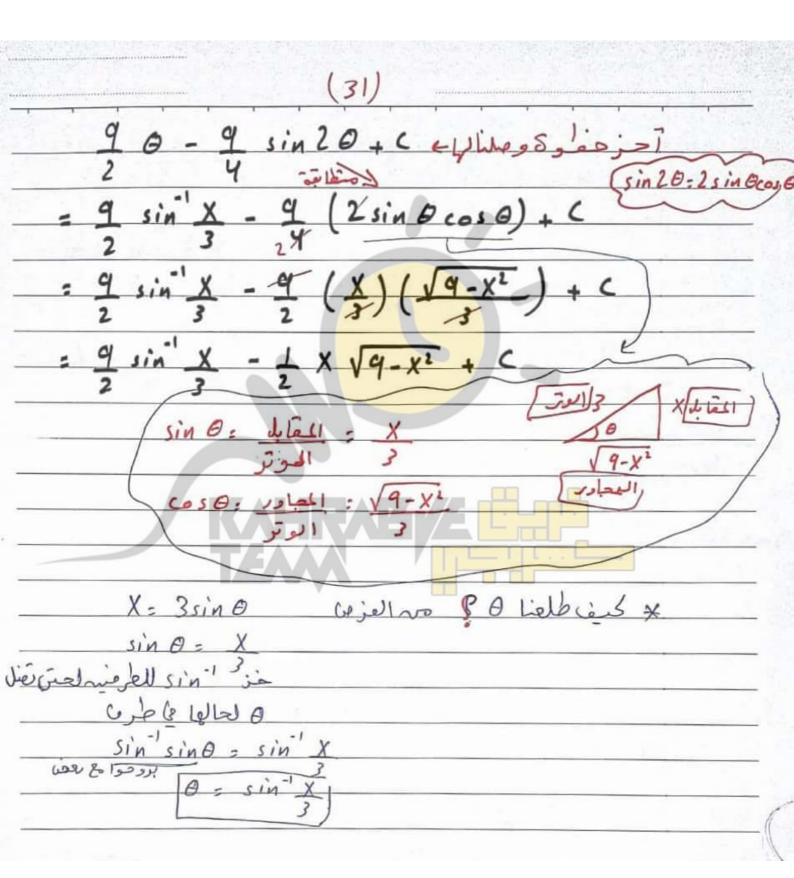


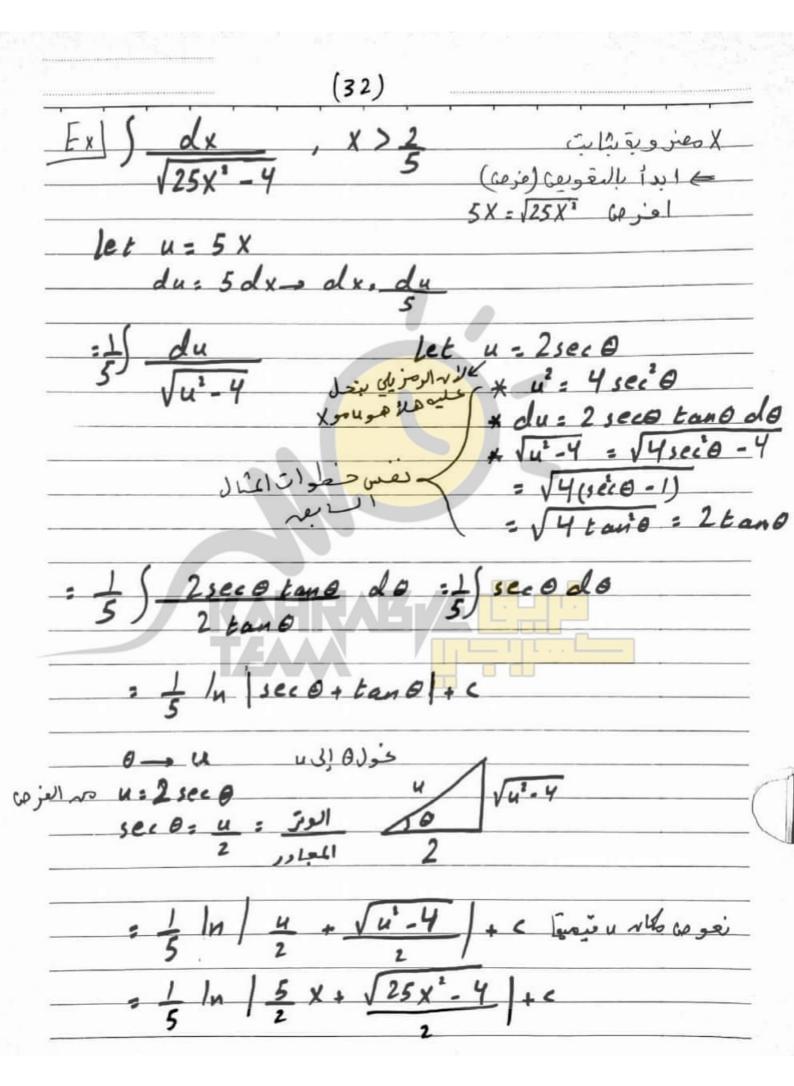


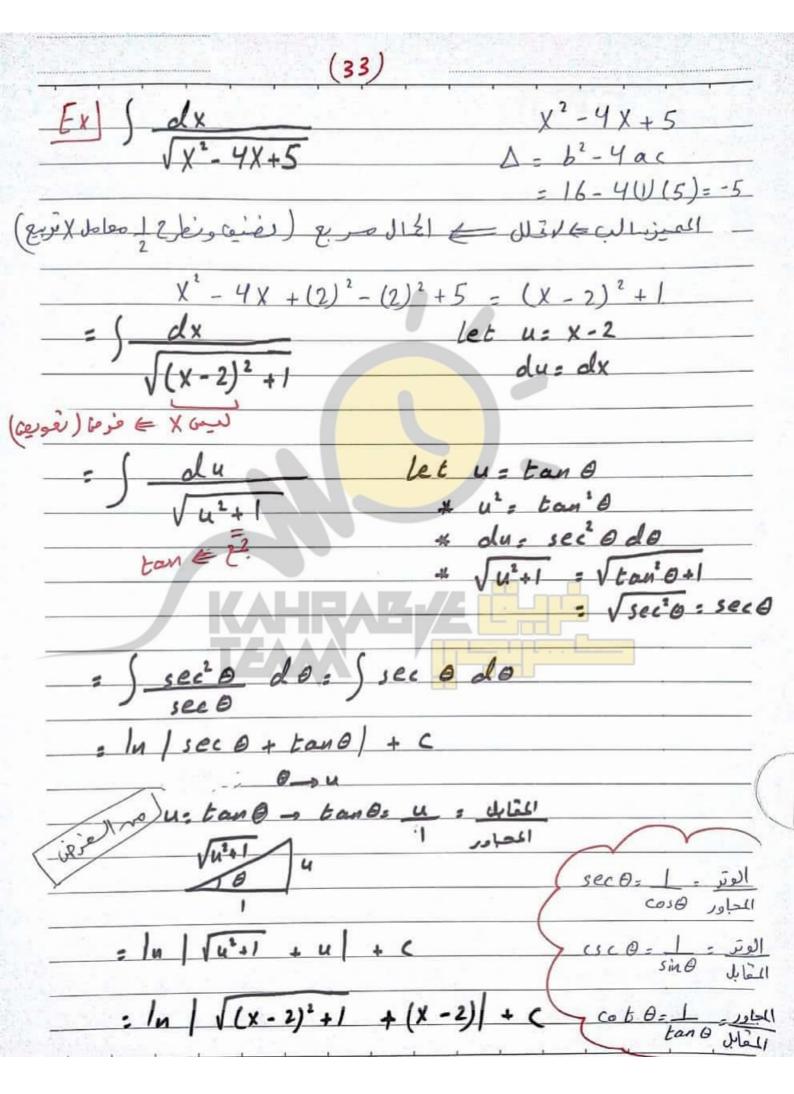
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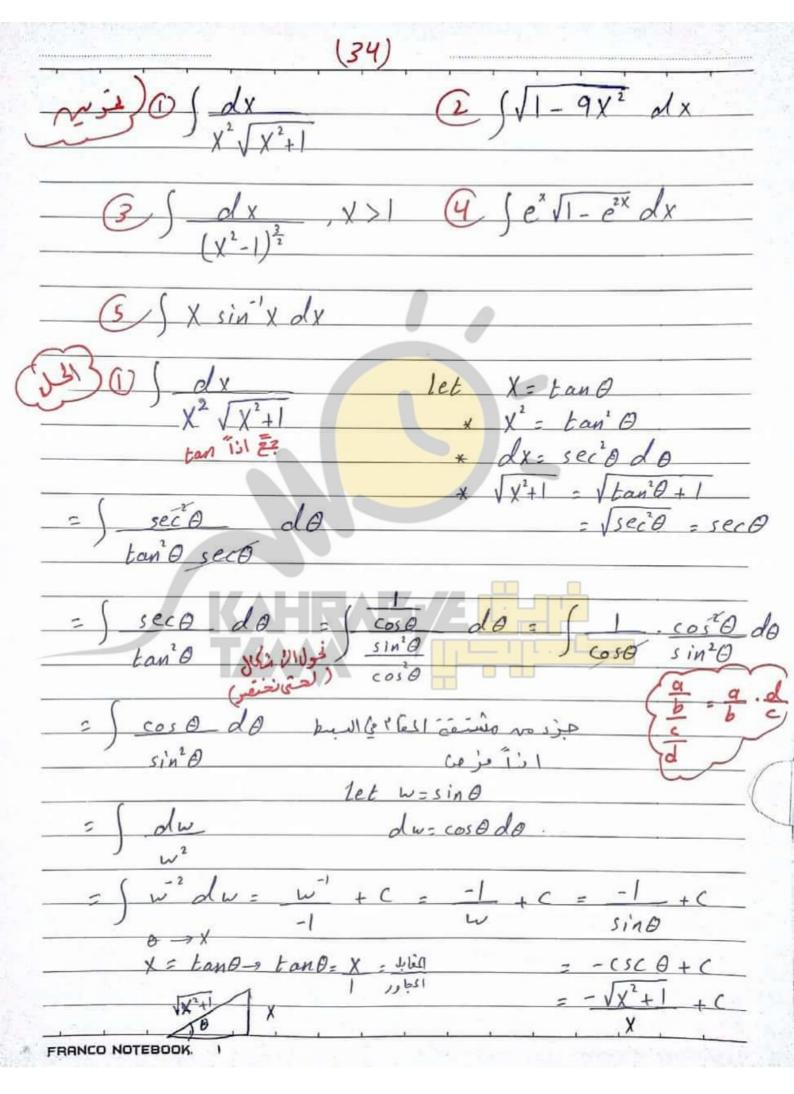


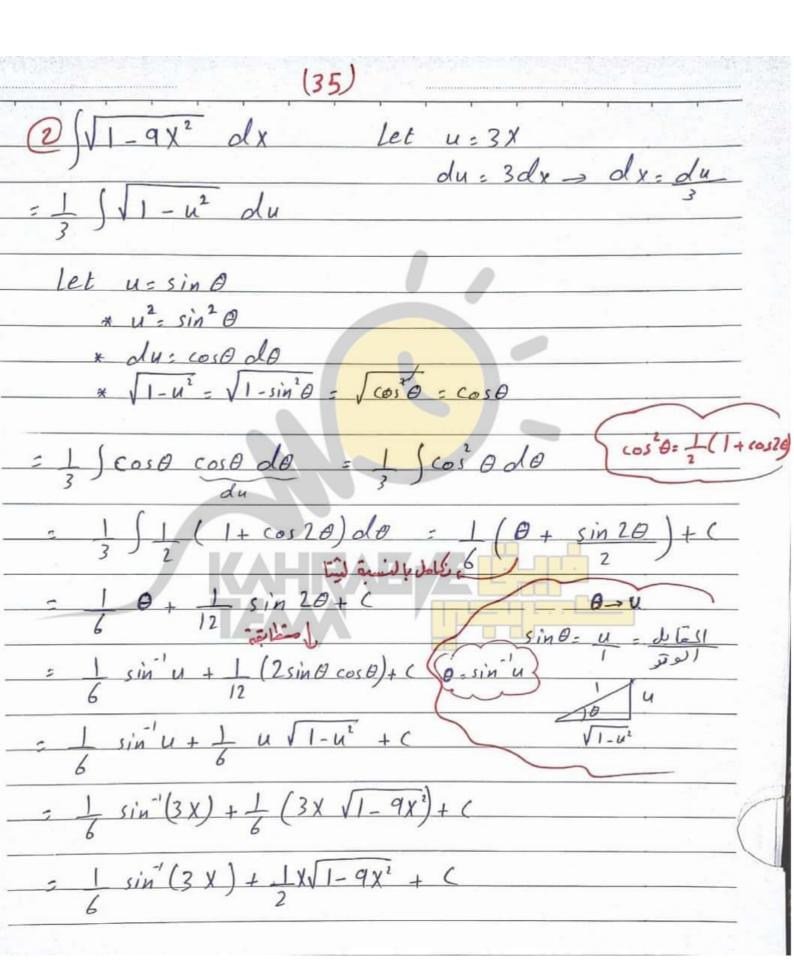


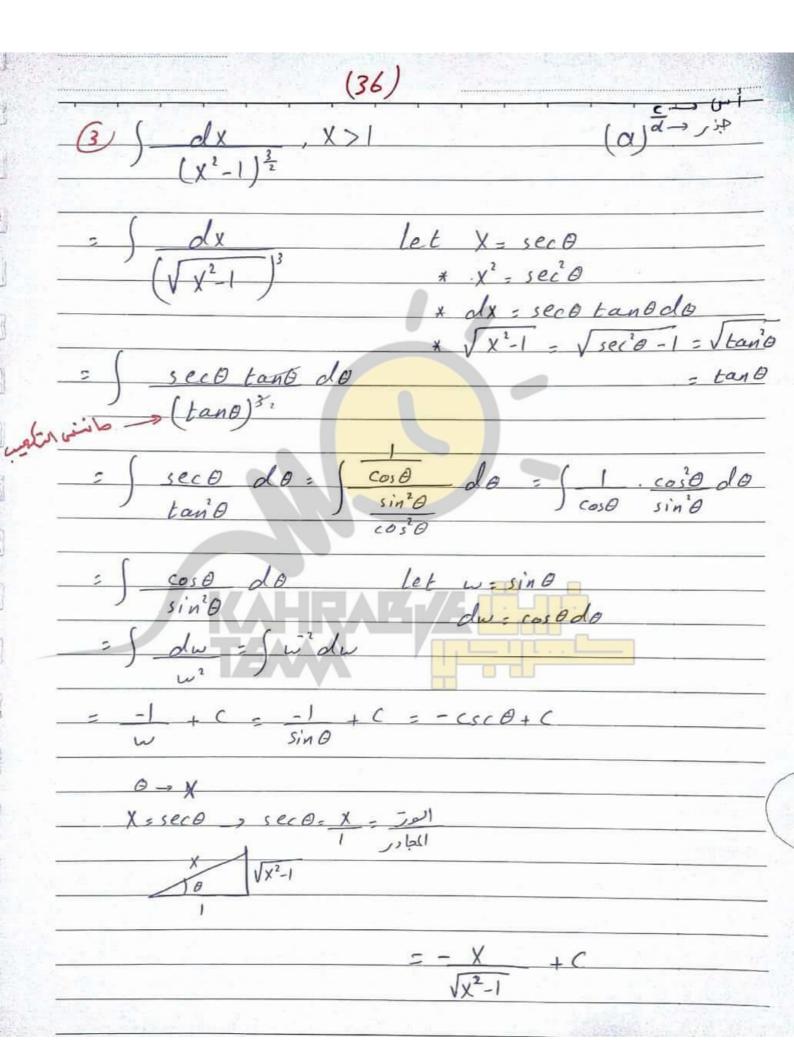


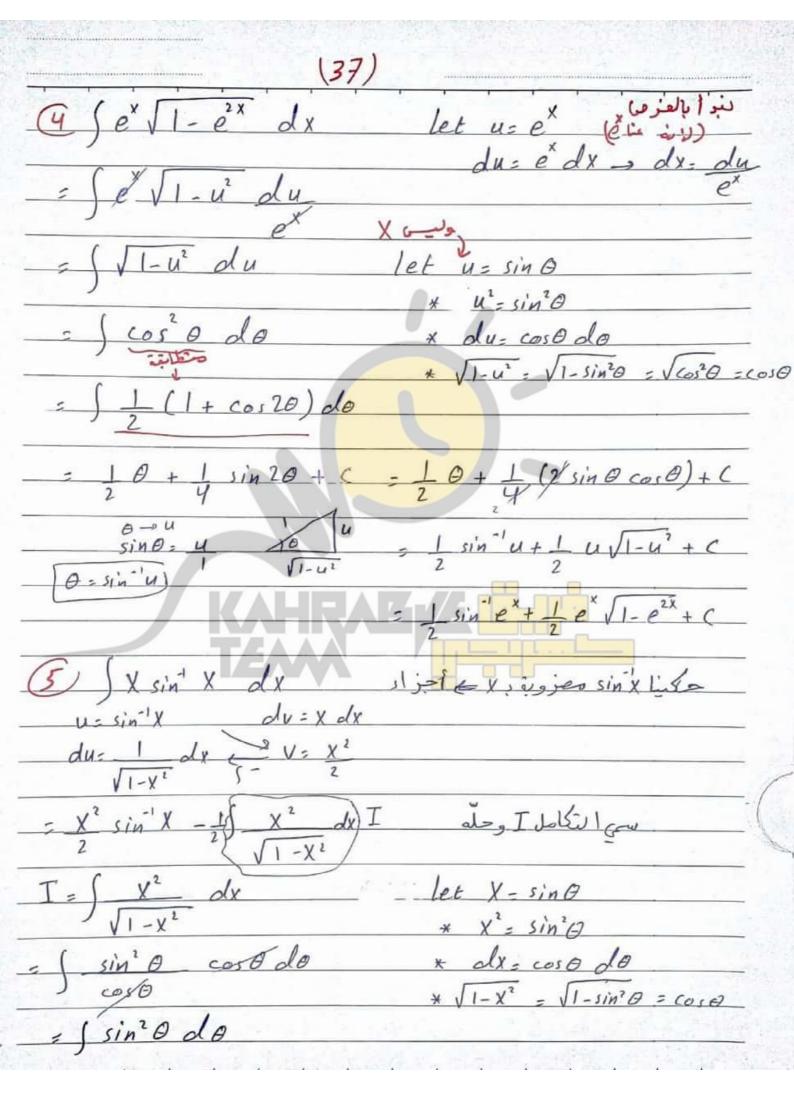


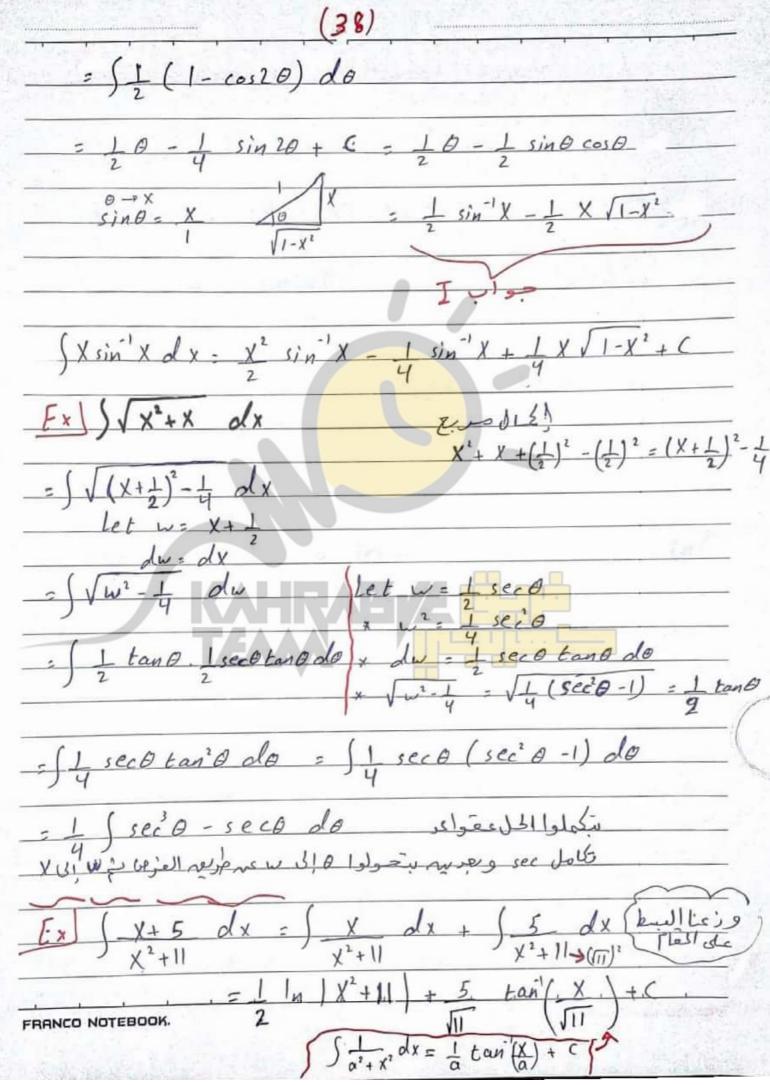




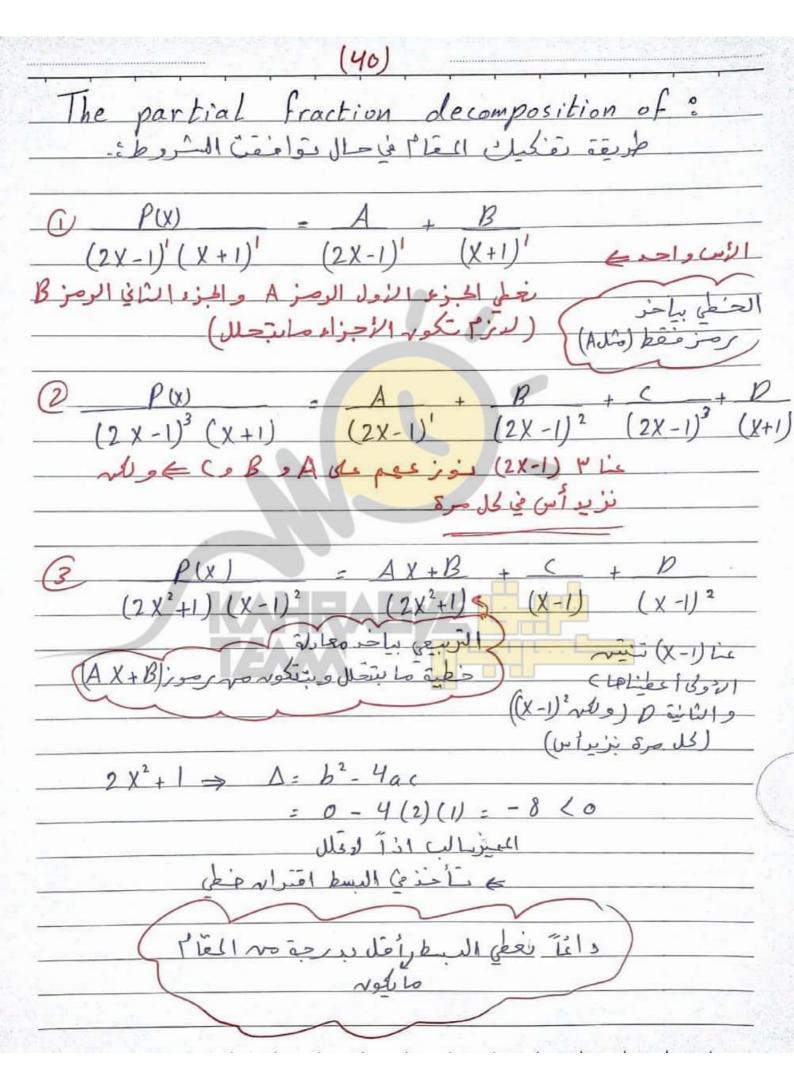


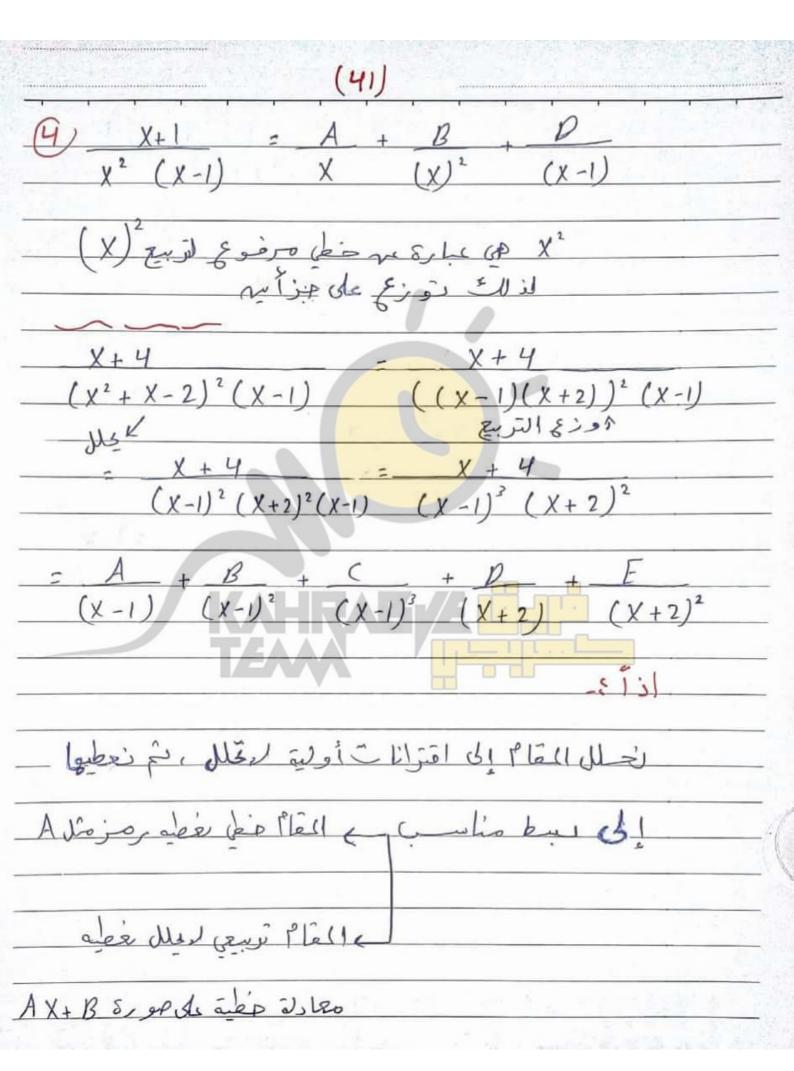


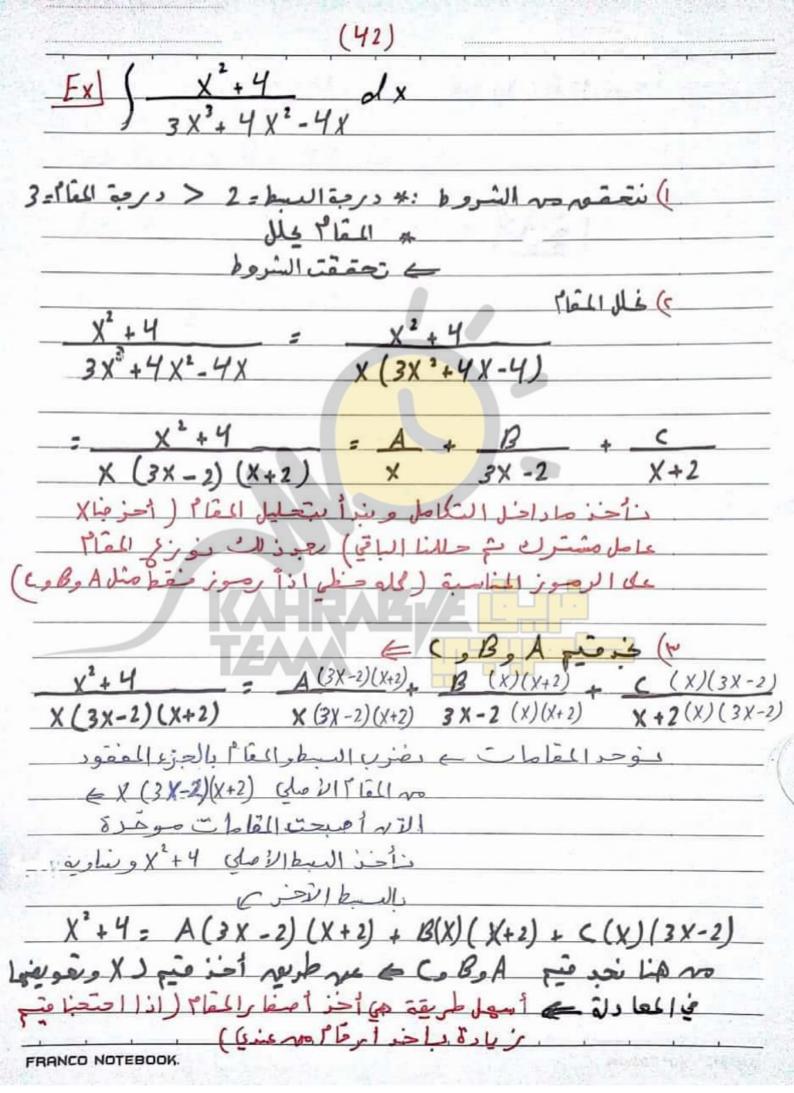


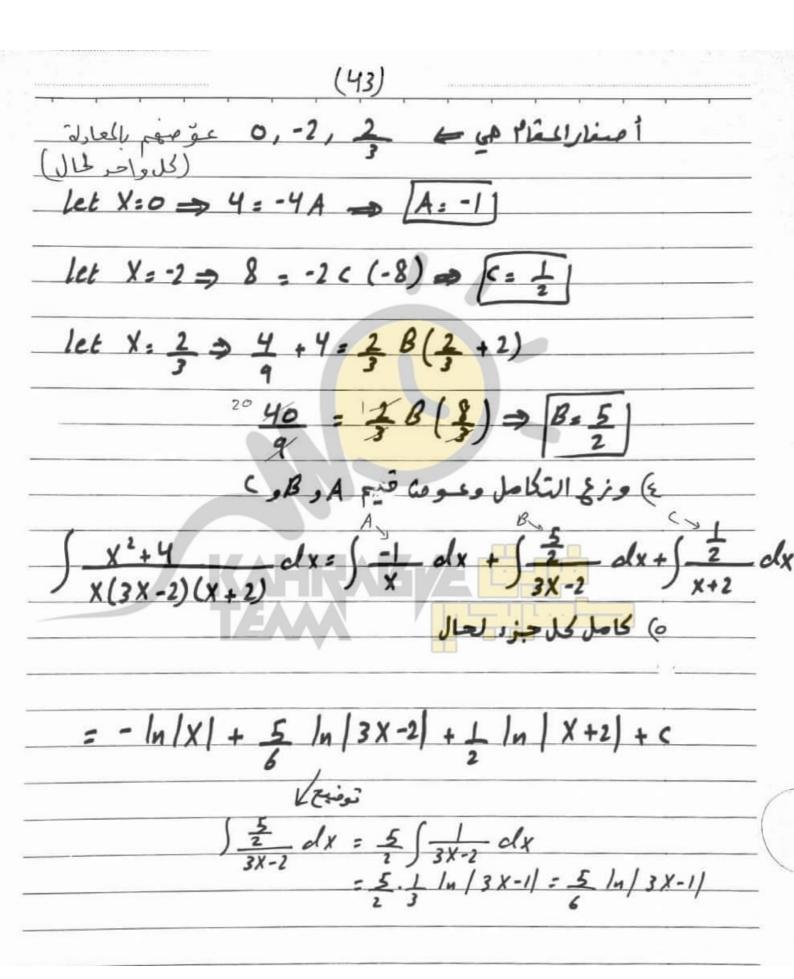


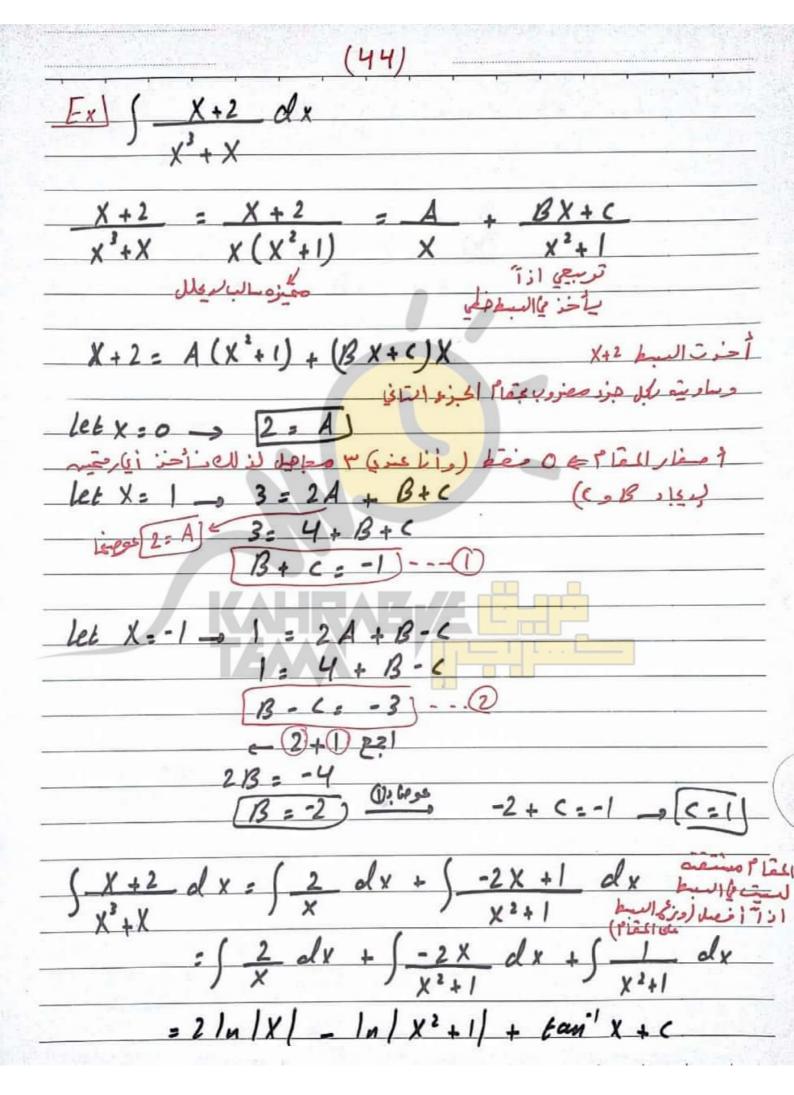
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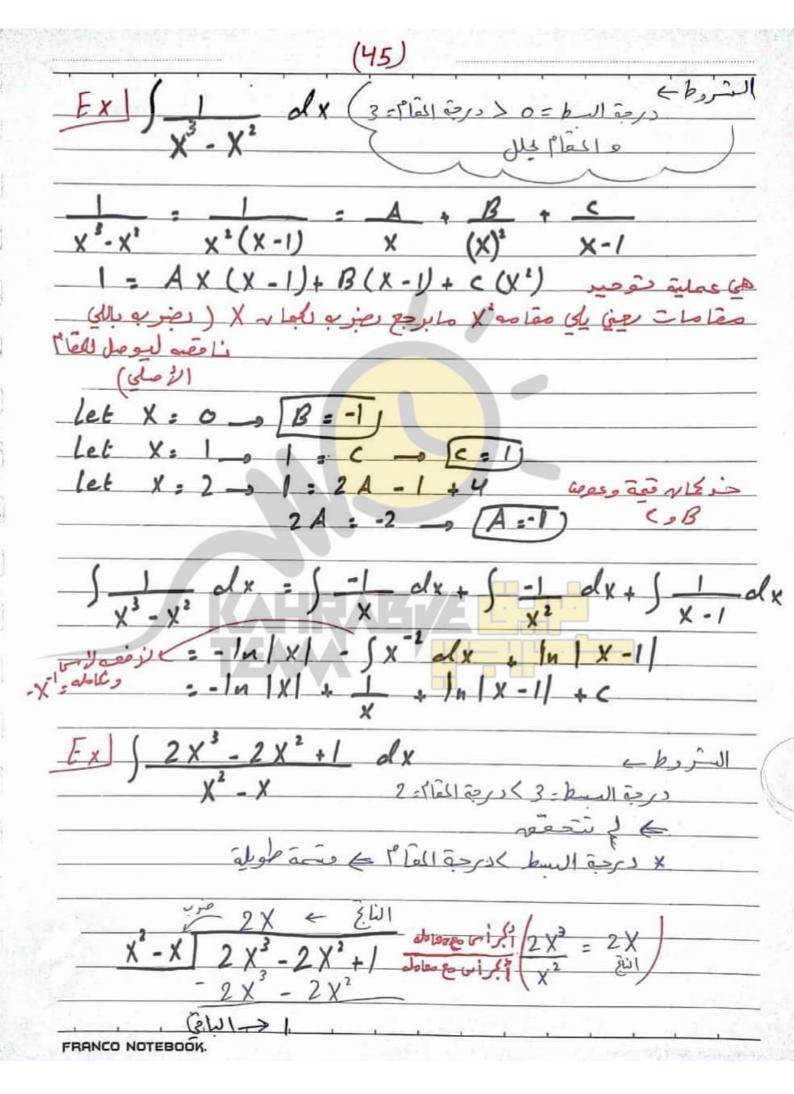


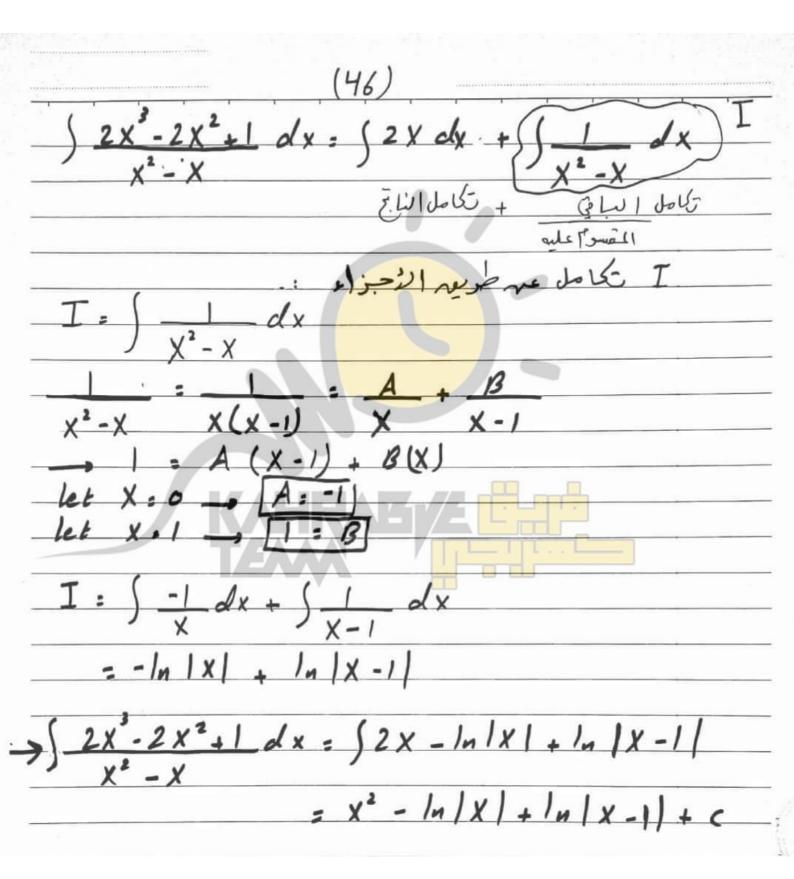


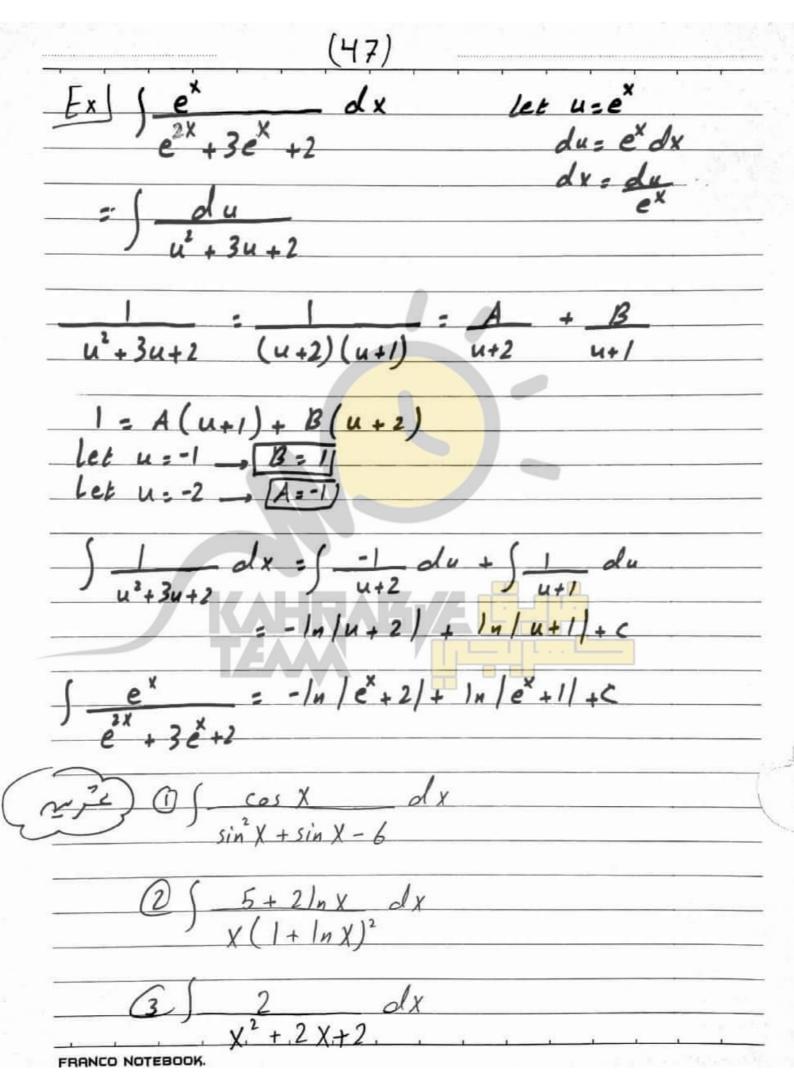


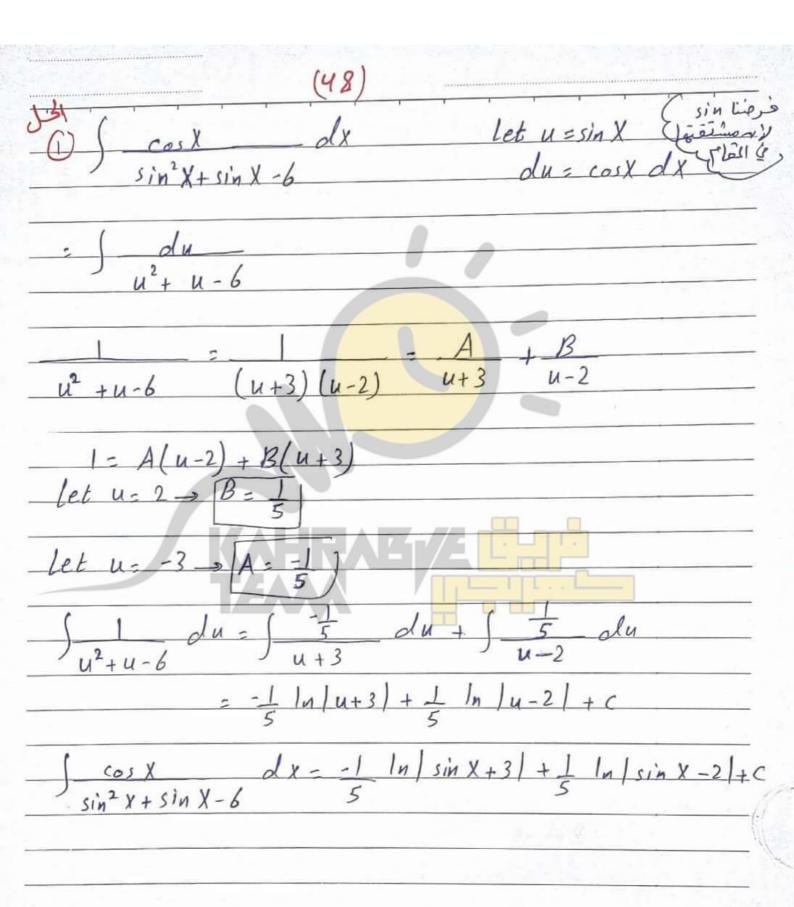


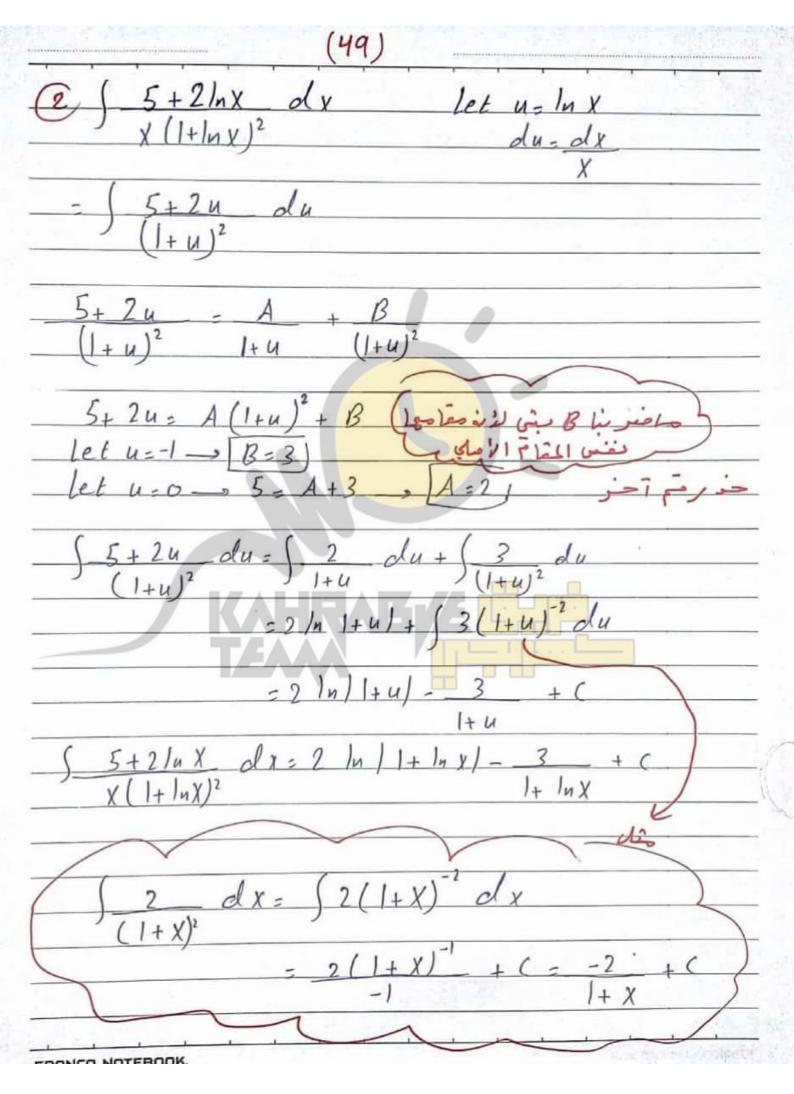




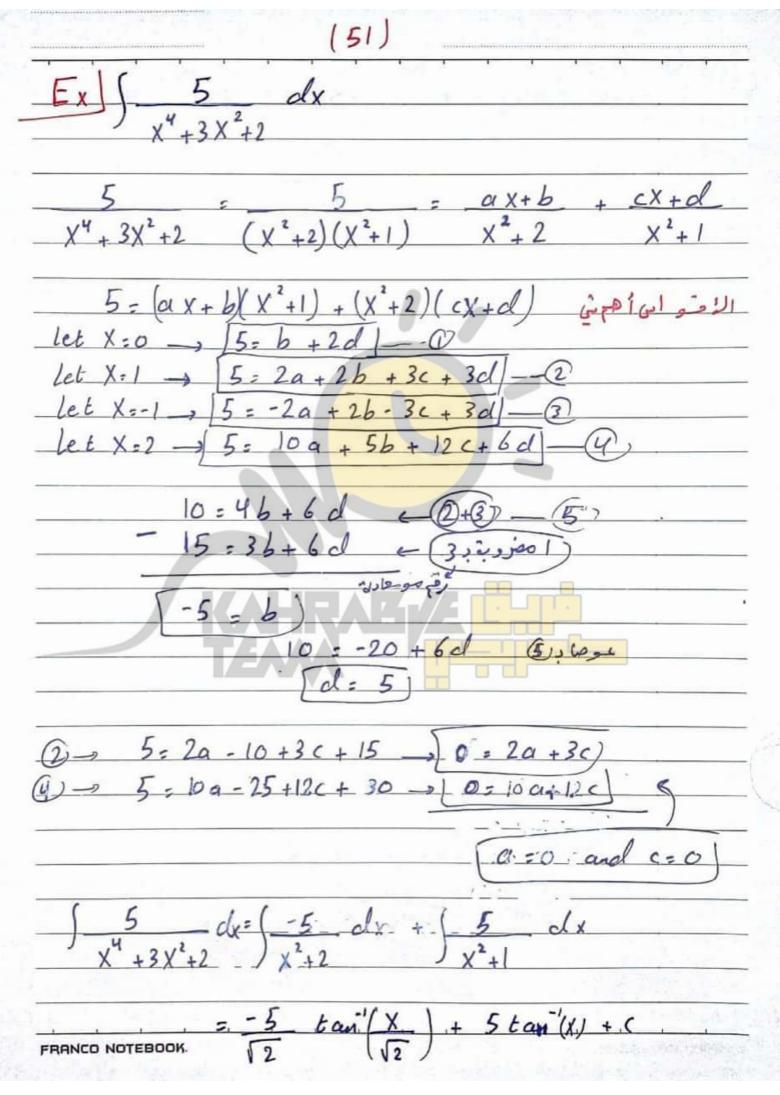


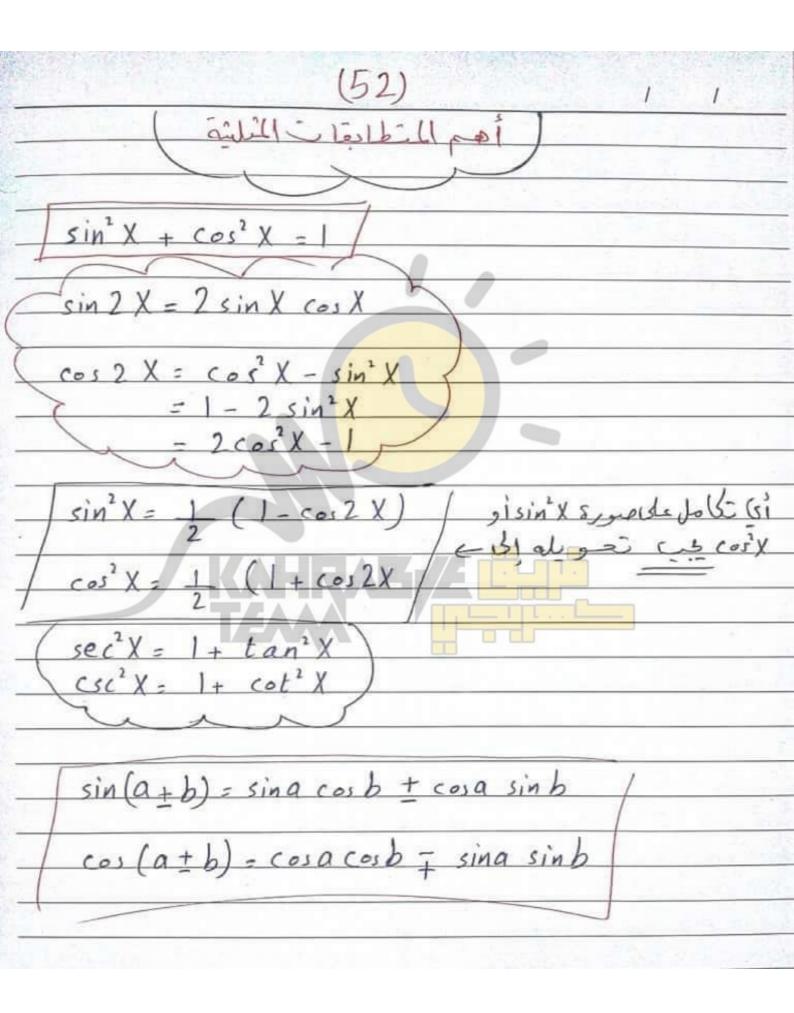




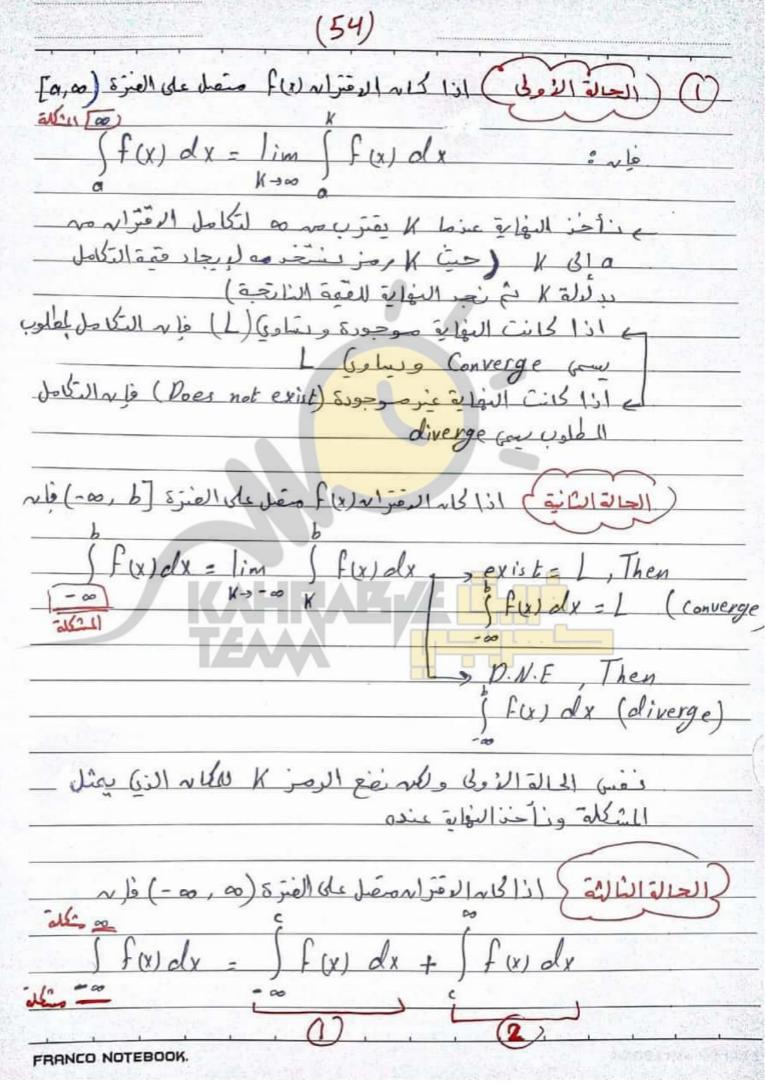


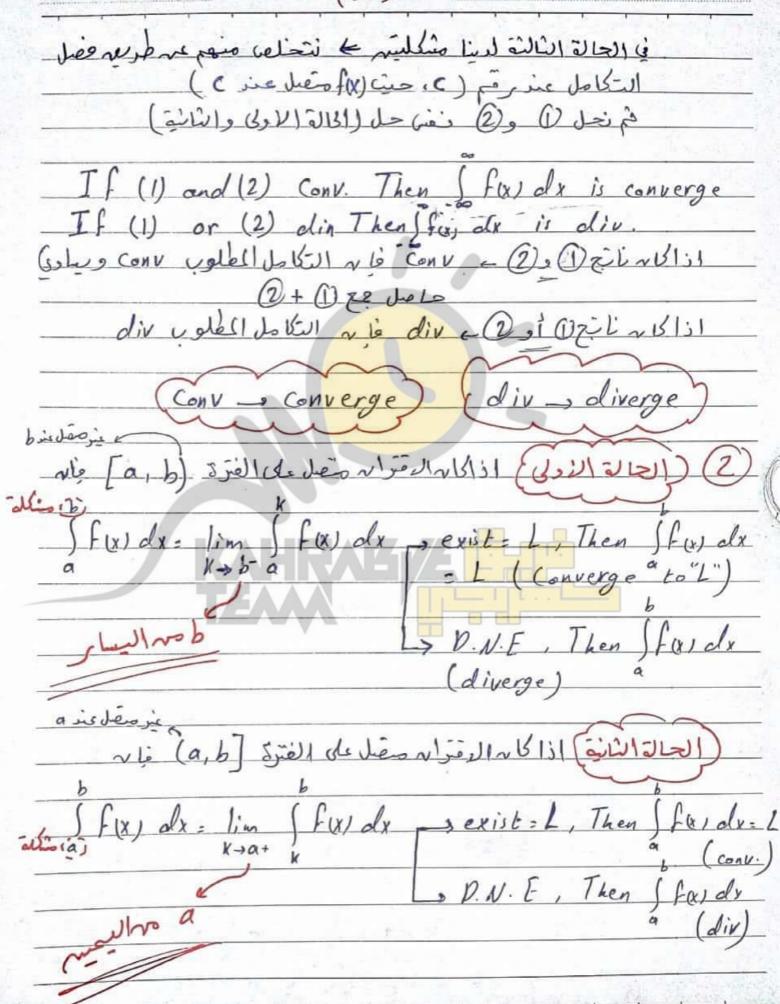
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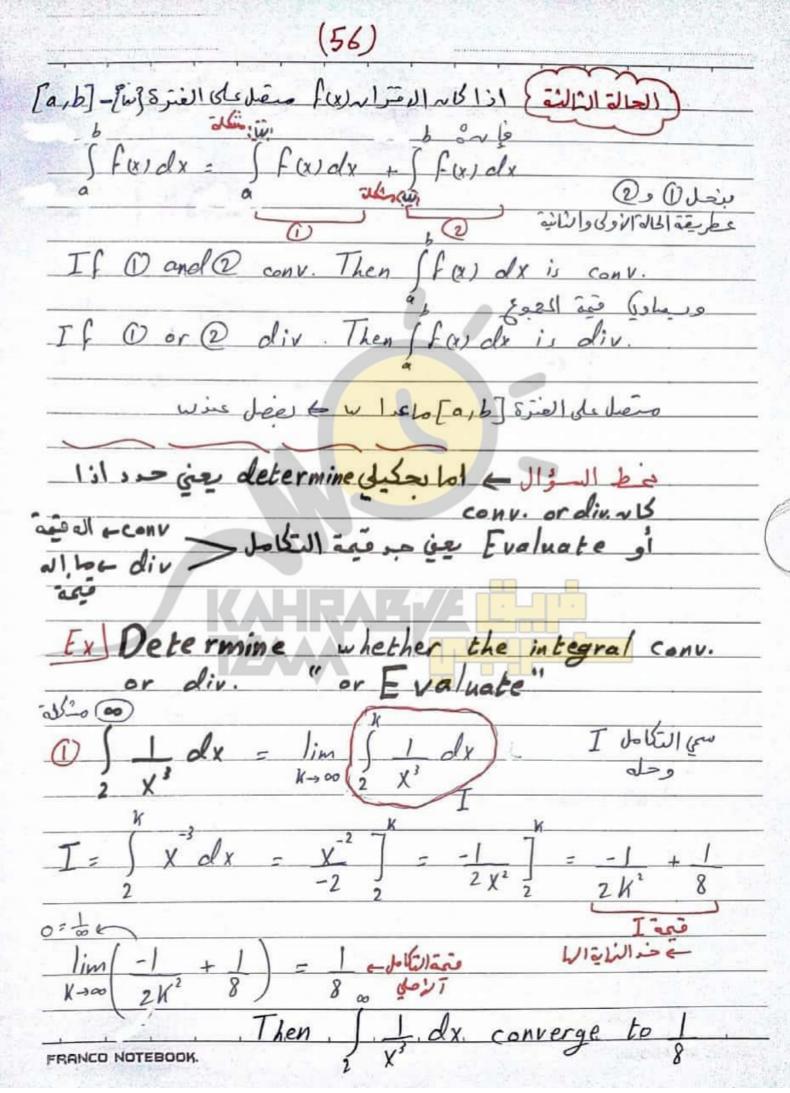


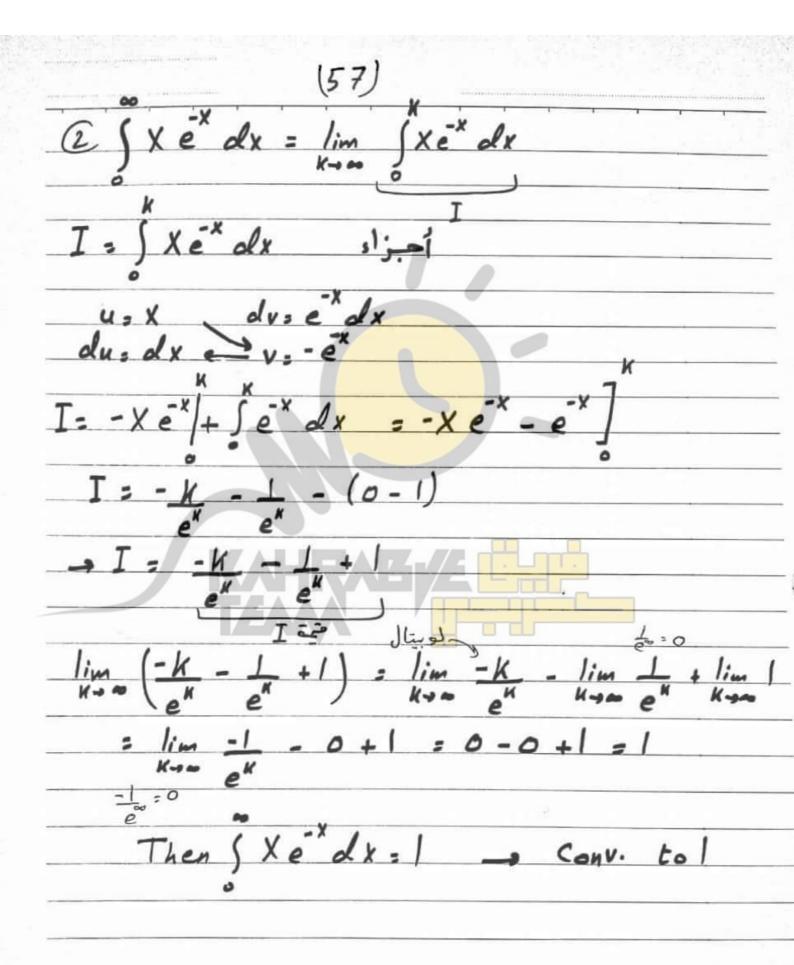


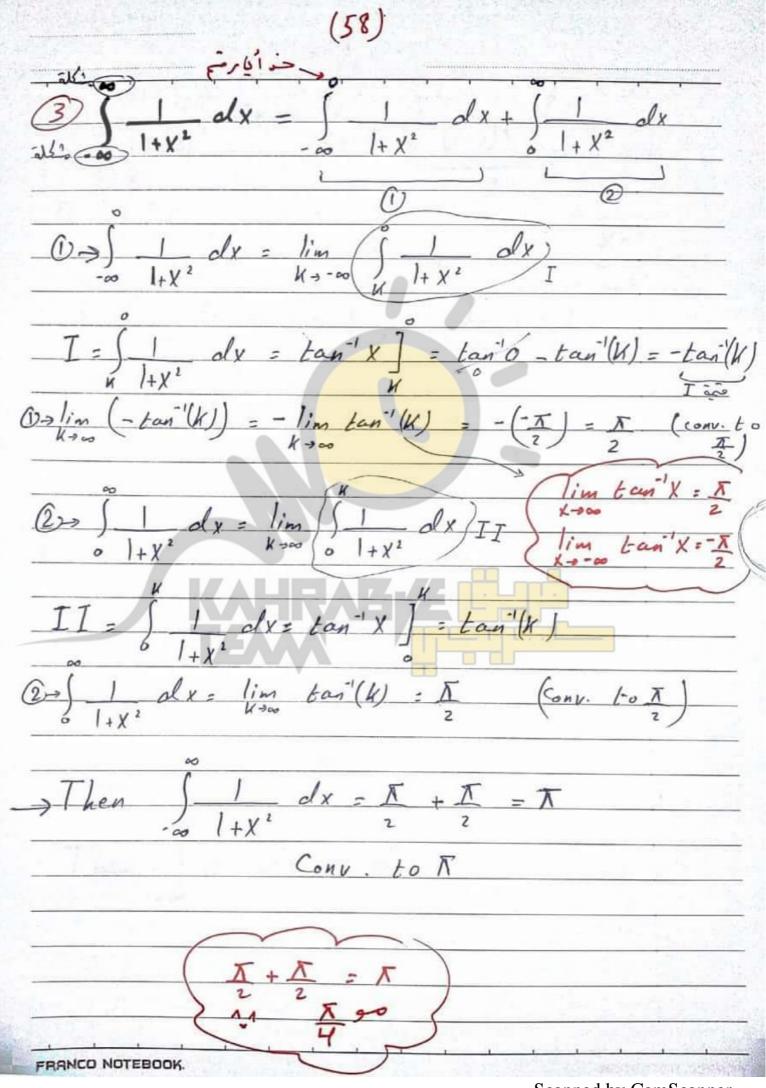












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