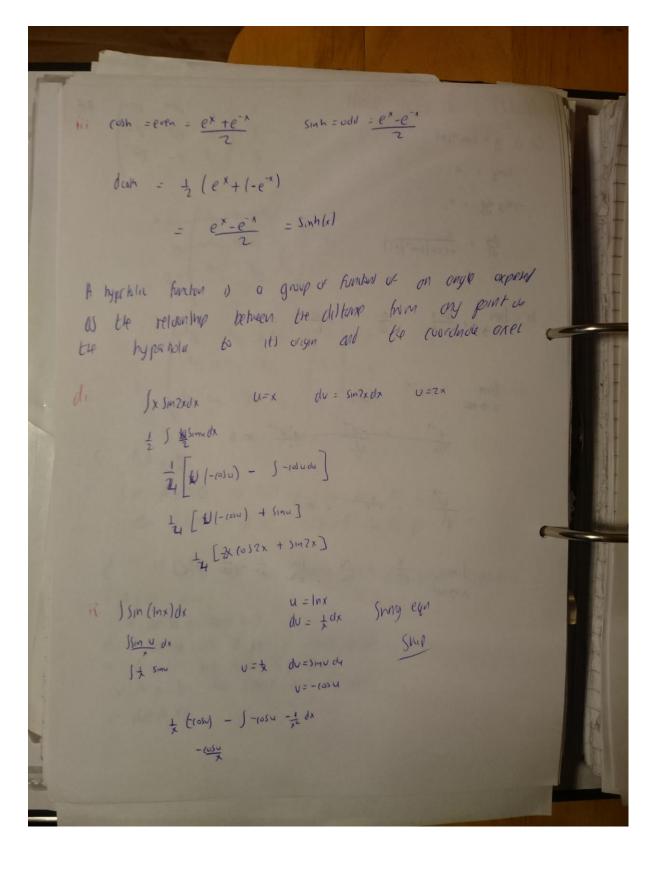
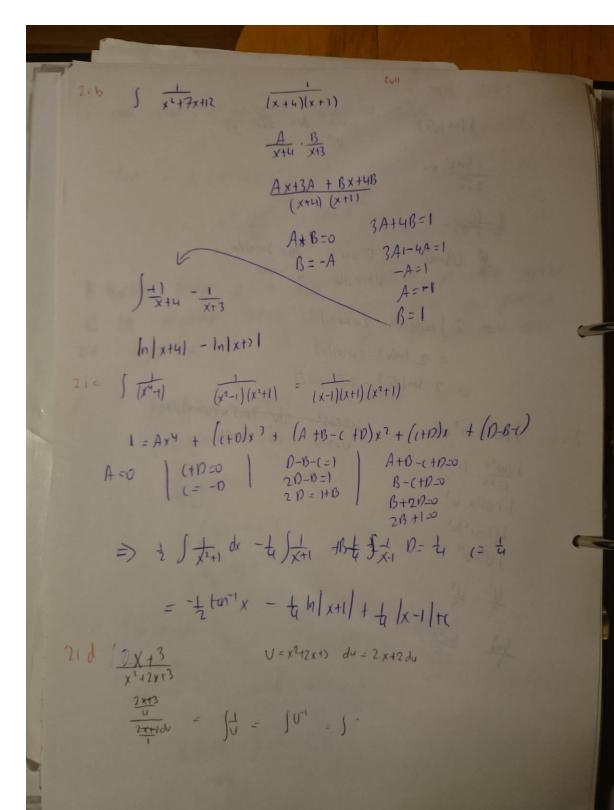
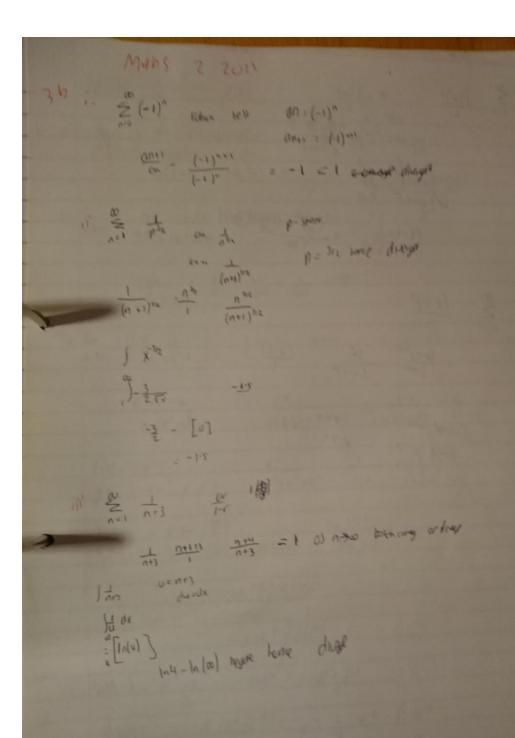


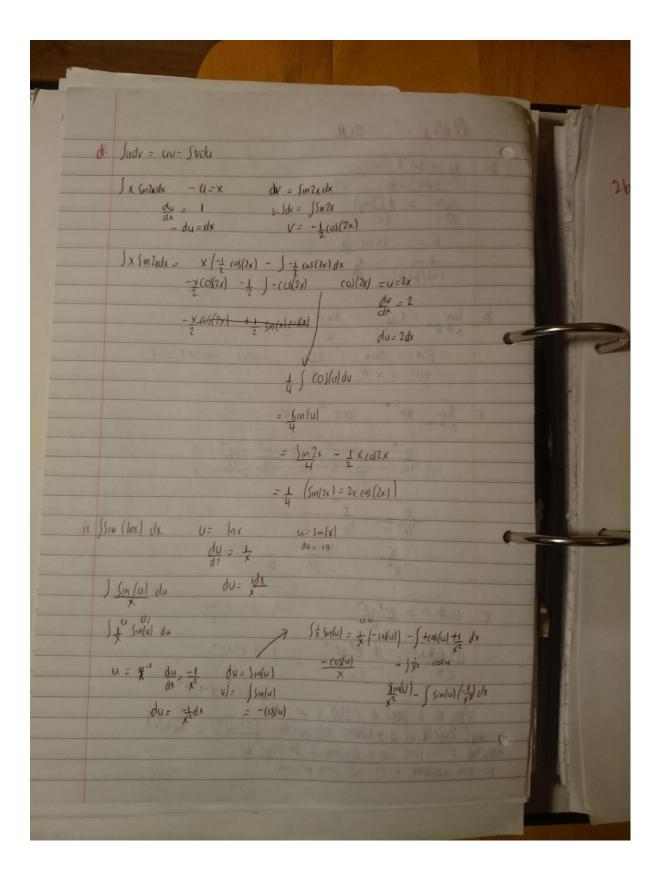
2011 pape 2. Q 1 dini Ssin (Jx) u=Jx du= 2Jx 1 Sin V du 1 (Smy 1-1) SMA If USINU F=u dy= sinluldu

Of=du y=-1374 = 2 Swordu - 24100/01 = 2 Sm(v)-2401(4) = 2 SIM(Jx) - 25x 1035x 2 i a $\int (0)^3 x \sin^2 x dx$ $U = \frac{3\cos^2 x \left(\sin x\right) dx}{U = \sin x}$ $du = \frac{3\cos^2 x \left(\sin x\right) dx}{U = \sin x}$ 113 - 50-54 - 50-54









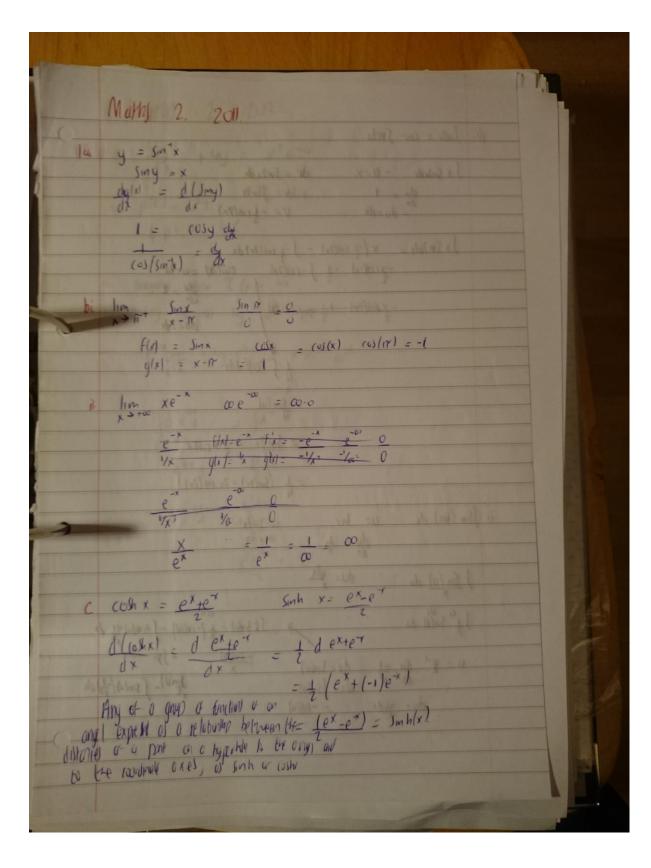
Marhs 2/ 2011 Q. Idir. Sin (Inx)de u= Inx du= +dx = Seusin(u)dx (enx=1x) rule Sexploral Sm (Bu)du = exploral (asm for) - Boos (Bu) $\frac{1}{2}e^{u} \sin(u) - \frac{1}{2}e^{u} (\omega(u))$ U=(nx > 1 x Sin(inx) - 2 x cos(inx) +1 = - 12 (x (LOS(INX)) - 5m (INX)) + in Sin (tx) dx du= todx Sinly dr 5 1/2 (u) Sin (u) dt 1 July 12 Sinly) 2 Smlul - 24 col4 $\frac{1}{2}\left(\frac{U^{-2}}{2}\cos(u)\right)$

0 11 2 (n+1)! 4 (n+1) 2 (nd1)! /n V(n+1)" (2n)! (2n+2)! (2n+2)(2n+1) (n+1)(2n)! 4 >0 0) n>00 3c & (x-2)" $\frac{(x-2)^{n+1}}{3^{n+1}} \frac{36}{(x-2)^n} \frac{(x-2)}{3}$

Ssin (Jx)dx U=JX ili $du = \frac{1}{2Jr} dx$ = S Sintully

1/2Jx dx = 2/5x Smu dg = Sinu dy f=u Ssinu = 2) USINU df=1
df=du 9 = - (0)(0) Bylans u(-cos(u)) - j - cos(u) +) (05(4) -24 COS4 + 2 SIN(U) 2 SMTX - 2TX COLUX +C

2i a $\int (05^3 \times 5 \text{in}^2 \times 4 \times 605^3 \times 605$ Man 2 2011 Jeos 3x (1-103x) J(0) x - (0) x S (05 X = <u>cos</u>-1x U=Sinx du=(axdx S (052x U2 d4 $\int (1-u^2)u^2$ $= \frac{U^3}{3} - \frac{U^7}{5} + ($ U-Sux Sink3r - Suxt $\frac{1}{2} \int \frac{1}{(x^2+7x+12)} \frac{1}{(x+4)(x+3)} \frac{a}{x+4} + \frac{b}{x+3}$ axiza tbx tub 1 x+u 2 - 1 (a+b)x +3000



$$\begin{array}{lll}
C & \int (x^{\alpha}-1)^{\alpha} & \int (x^{2}-1)(x^{2}+1) & \frac{A \times A \times b}{X^{2}-1} + \frac{c \times 1 d}{x^{2}-1} \\
A \times A \times b + b \times a^{2}+b & + c \times b^{2}-c \times b + d \times a^{2}-d \\
A \times b^{2} + A \times b \times a^{2}+b & + c \times b^{2}-c \times b^{2}-d \\
A^{2} & A + c = 0 & b + d = 0 \\
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