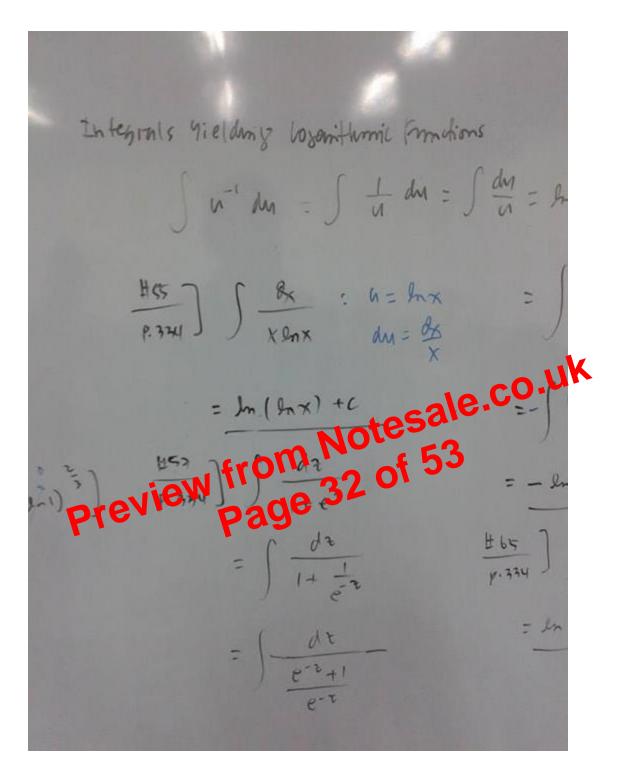
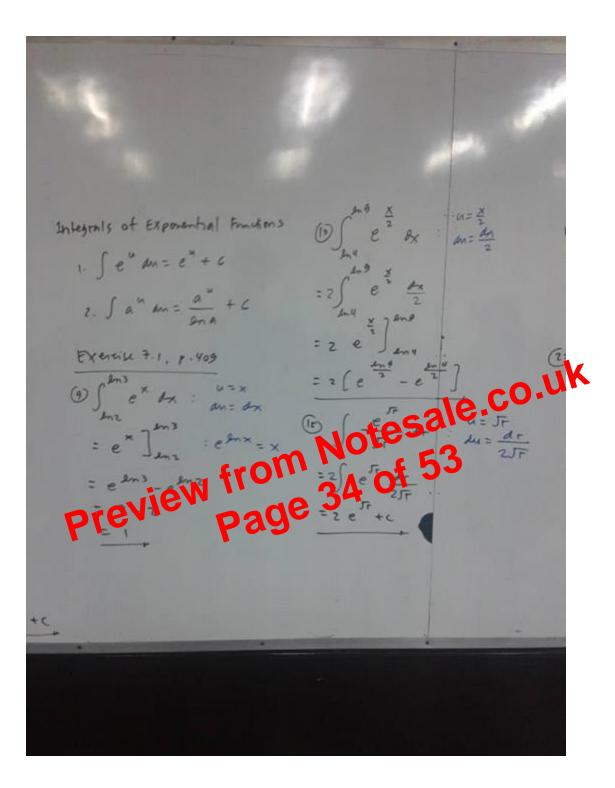
0) Bh 8% = ) JZ XJX = ) (x ~ x-4) 8x = - 1 ) - X = Xt Preview from Notesale.co.uk  $\frac{x^{-3}}{-x} + C$  $\frac{-2}{5\pi x} + C = \int \int x l x$ OX" Dx - = ) / × (x--78 3) 0% = ) (x+1) Tr 1 - 2 2×3 + C = ) (X+17 X - ((X+7 -3x34-

 $\bigcirc \int \frac{x^3 - 1}{x - 1} \mathcal{B}_{\mathcal{B}} :$  $= \int (x^{2} + x + 1) \partial x \quad \forall T x - 1 = \frac{x^{2} + x + 1}{x^{2} - 1}$ x -x (+) (+) = X + X + X + C = 1 x + 1 x + x + C 8× Jx3 + m + Notesa Rage 16 of 5,3 x<sup>2</sup> iew Pre  $= \int \int X (X+1)^{2} \theta X = \frac{3}{5} X^{\frac{5}{2}} + \frac{3}{7} X$ = ) (x+1) Tx dx = ) (x+1) x = 0x = ((x+1) x = 0x

 $= \int_{3}^{1} \left(1 - \frac{3}{\chi^{3}}\right)^{\frac{1}{2}} \frac{2}{\chi^{4}} \frac{2}{\chi^{4}} \frac{1}{\chi^{5}} \int CX_{4}$  $= \int_{3}^{1} \left(1 - \frac{3}{\chi^{3}}\right)^{\frac{1}{2}} + C$  $=\frac{2}{2}\left(1-\frac{3}{x^{3}}\right)^{\frac{3}{2}}+C$ Ξ Preview from Notesale.co/u Page 24 of 53  $= \int (u'' + u'') du = - \int (u'' + u'') du$  $=\frac{1}{12}(x-1)^{12}+\frac{1}{11}(x-1)^{11}+C$ 

 $\frac{\left(\delta m^{-1} X\right)^2 \theta_X}{\int \left(-X^2\right)^2}$ 6 (2 63 11 (2  $u = \delta m^{-1} x$   $dm = \frac{\delta n}{\sqrt{1 - x^2}}$  $= \int (dm - 1 \times)^2 \frac{dx}{\sqrt{1 - x^2}}$  $= (\frac{\delta m^{-1} \times }{2})^{3} + \in Notesa$ gex 27 of 53 a) < Pre 0 2 + tan 3 x 4= u = 2 + (tanx) du = 3 (tamx) 2 sec2 x dx du = 3 tan 2 x sec 2 x dx





 $\frac{\#17}{P\cdot375}\int_{0}^{\frac{\pi}{2}} \frac{6\pi i}{2\pi} \frac{dx}{dx} = 1$   $= \frac{1}{2}\int_{0}^{\frac{\pi}{2}} \frac{6\pi i}{2\pi} \frac{dx}{dx} = 1$   $= \frac{1}{2}\int_{0}^{\frac{\pi}{2}} \frac{6\pi i}{2\pi} \frac{dx}{dx} = 1$   $= \frac{1}{2}\left(-\frac{1}{100} \frac{1}{100}\right)\int_{0}^{\frac{\pi}{2}} \frac{1}{100} = 1$   $= \frac{1}{2}\left(-\frac{1}{100} \frac{1}{100}\right)\int_{0}^{\frac{\pi}{2}} \frac{1}{100} = 1$   $= \frac{1}{2}\left(-\frac{1}{100} \frac{1}{100}\right)\int_{0}^{\frac{\pi}{2}} \frac{1}{100} = 1$   $= \int_{0}^{\frac{\pi}{2}} \frac{26\pi i}{26\pi i} \frac{1}{100} \frac{$ from Notesa Page 42 of 53 = - 1 ( cos # - cos o ] Preview from Preview Page on E 252 -1

=- ( (105x) 3 (- 5m x 8/1) - 1-) ( (05x) 3 (- 5m x 8/1)  $u = \cos x, dn = -\sin x \beta x$  $= -\frac{(\cos x)^4}{4} + \frac{(\cos x)^6}{6} + C$  $= -\frac{1}{4} \cos^4 x + \frac{1}{6} \cos^4 x + c$ You]) med sol n : = S (cost x) sin x as a tesale.co.uk = S(1-mi from 48 of 53 preview page 48 is x cosx of - S(sin x) cosx of - S(mix) cosx 4 = SINX, du = cosx dx  $= \frac{(\sin x)^4}{4} - \frac{(\sin x)^6}{4} + c$ = 14 Sin 4x - 1 Sin 4x + C