2011.9) In = 55.10 n + 3x (472) 55.20 x + 3x = 55.00 x + 5.00 x + 3x = -5.00 $x + 105x - 5(-105x) \cdot (47)5.00$ $x + 105x + 105x - 5(-105x) \cdot (47)5.00$ $x + 105x + 105x - 5(-105x) \cdot (47)5.00$ = -522 30 (05x + (h-1) 5 5 1 2 - (053/2) = = - 5.2 2- 50- co 5x +(n-1) (5:2 x x x x x x - (n-1) (5:2 x x x) Ssinxdx = -5inha (05)(+(27) Ssinha dx -(h-1)(sinhadx $n \int s_{1}^{n} dx = - \int s_{1}^{n-1} x \cos x + (n-1) \int s_{1}^{n-1} x dx$ $\int sn^{n} dx = -\frac{sin^{n-1} (ost + n-1)}{n} \int sin^{n-2} dx$ $\int s_i n^6 \chi d\chi = -\frac{s_i n^5 \chi (os \chi + 5)}{6} \int s_i n^6 \chi d\chi =$ = - Sin x Cosx 5 (_ shxcosx + 3 Sin x dx)= = - 5:n Dicosx = 5 / - 5:n 31(05x + 3 (5:nx(05x + 1/2x))= -- Sin Sclosx 5 sin x cost 15 sin x cost (5 x + C d) Kn = 5 (05 x d) (und (anawreture) $S(os^{n}xJx) = S(os^{n-1}(osoldx) = cos^{n-1}(s,nx) - (s,nx)(n-1)(os^{n-1}(s,nx)dx)$ $= (05^{n-1} \times 5 \times 10^{-1}) \times (05^{n-2} \times 5 \times 10^{-2}) \times (05^{n-2} \times 10^{-2}) \times (05^{n-2} \times 10^{-2})$ = (05 "x 5, nx e(n-1) \$(05" x Jx - (n-1) \$(05 n Jx , on-e. \$ (05" X) X = (05" X 5" NX + (n-1) \$ (05" X) X - (N-1) { (05" X) X S(05 2) X = (05 2) X Sinx (n-1) (05 2) X 5(05 8x dx = (05 x 5in) + 7 (05 x 5in) + 5 (05 x 5in) + 3 (05x 5in) + 3