(1) sin (AIB) = sinA LOSB + LOSA SINB SPAGENO. (ii) LOS (AIB) - LOSA LOSB 7 SINA SINB NIC. (iii) lan(AIB) = lanAIB 17 tanA temB (iv) cot (A ± B) = cotA cotB = 1 cot B ± cot A (V) Jan (I + A) = 1 + tanA 17 tan A (vi) sin (A+B) sin (A-B) = sin2A - sin2B (YII) LOS (A+B) LOS (A+B) = LOS A - SIÑB = 603B - 810 A (Viii) tan (A+B+c) = Etan A = tan A tan B lanc 1- 5 tan A tan B (ix) Let (A+B+C) = COTA LOTB LOTC - COTA - COTB-COT cotAcotB + cotBcot C + cotCcotA-1 multiples angles $\Delta A_1 3A_1 UA$ sub " " $\frac{A}{2}, \frac{A}{3}, \frac{3A}{2}$ (1) Sin 2A = 28in A cos A = 2 tan A It lan'A.

(ii) cos2A = cosA - 29n2A PAGE NO !! = 2 cos A - 1 DATE: / / 1 - 2 sin A 1 - tana 1 + tan2A (iii) tandA = DlanA 1-tan21 (iv) sin3A = 3 sin A - usin3A (V) WS3A = 4 COSA - 3 COSA (vi) tan3A = 3 tan A - tan3A 1 - 3 tan2A 2 kan A/2 (vii) sinA = 2 sin(A) cos(A) = 1 + lar A/2 1+ cos2A = 2 cos2A (ix) 1- 6052A = 28002A (X) $\cos A = \cos^2(A) - \sin^2(A) = 2\cos^2 A - 1$ (xi) 1 - lun 2/2 1 - 28inA = 1 + Lan A/2 tanA = 2tanA/2 (X11) Hazar pour 3001 1 - tan 2 A/2.

(i)
$$2sin(A)cos(B) = sin(A+B) + sin(A-B)$$

(ii) $2cos A sinB = sin(A+B) - sin(A-B)$
(iii) $2cos A cos B = cos(A+B) + cos(A+B)$
(iv) $2sinA sinB = cos(A-B) - cos(A+B)$
(v) $sinC + sinD = 2sin(C+D) cos(C-D)$
(vi) $sinC - sinD = 2cos(C+D) sin(C-D)$
(vii) $cosC + cosD = 2cos(C+D) cos(C-D)$
(viii) $cosC - cosD = -2sin(C+D) sin(C-D)$
Time Saving Result
(i) $scco + tonO = 1$

seco-fano