Note: 015 in RADIANS (A): All Trigonometric Functions · Degree measure=180 x Rodian meas. (2) Check the quadrant for the sign as per the original Function. · Rodlan measure = II X Deg. measure 180 (I) RECALL (BACHPAN WALI FEELPING) (II) VALUE OF ANY ANGLE (NEHA MA'AM STYLE) (1) II X ODD multiple => sin<> cos, tan<> cot, (3): Sin & Cosec (C): COS & SEC T): Tan & Cot IX EVEN MUHIPLE > T- FUNCTION: Same Sec 1 105ec II) DEGREE and RADIAN Soll L= ro · 1 + cat 0 = cosecto (皿) QUADRANT SYSTEM 11/2-0,0, · 1+ tan20 = seco 11+6 11 13 11+0 T-0 T T 2TH 731-6 an-6C) · sw to + cos to = Mathematically o 17 = 180° . SUNTA- SUNTB = COSTB-COSTA = SIN(A+B) SIN(A-B) TRIGONOME TRIC · cos2 - sin2 = cos2 - sm2 = cos(A+B) cos(A-B) FUNCTIONS of SIN and Cos Ke Kahaane, Neha m'am Ke of Trebaned of Tubaanes... of of of KDS TO COS (S) STUBBORN, ANGRY, NON-ACCOMODATING NONA 3 tana - tania 1-3 tam2A (1) SM3A = 35 in A - 45 in 3 A 3 Lams A = (I) SIN (AIB) = SMA COSBI COSA SMB (2) cos (A+B) = cos A cos B = 5 m A S mB SIN CO FRIENDLY, LOYAL, ACCOMODATING (1) sm2A = 1 2 cos2A = (3) tom2A = 1-12m7 Land 1+TANA TANB TANA + TANB COT A COT BIL cet B twtA (II) TRIPLE ANGLE FORMULAE (2) COS 3A = 4 COS3A - 3 COSA (T) DOUBLE ANGLE FORMULAE 1-25m2A 2 SinA LOSA COSTA - SINTA 20032A-1 +tan2A 1-ramt xubaani... of eld 3 TAN (A±8) = (COC (A I B) = 2 tam A 1+ tan A

SIN ISKA TI USKA COSNII EVEN +1 Integers setob Every T-Egn gives thematically (coscocos) = odsin(c+b) sin (c-b) (A) SIMA SIMB = COS(A+B) (C) COS(A-B) (X) TRIGONOMETRIC EQUATIONS (T-Egns) = cos(A+B)+cos(A-13) 3 2 casa sinB = SIN(A+B) - sin (A-B) Agreement 3 COSCTCOSD = 2 COS($\frac{(C-D)}{2}$) COS($\frac{(C-D)}{2}$) @ smc-smD = 2 cos (C+D) sin (C-D) (2 2 2 m R cosB = S(n(A+6) + Sim(A-B) Osmc+smD=2sm(CID) cos(C-D) 2 solutions (3) cost = costy (=) n= nTI ±y 6 tanta= tanty (ALL THE x(1-)+111-x (+ Kuss -xws a B cosx = cosh = x = SULL + B 3 toma = tomy = x=nII +y (VIII) Cand D FORMULAE (IX) NAAM KYA DUP PRINCIPAL SOLUTION @ GENERAL SOLUTION TRIGONOMETRIC 3 2 COSA COS B 05 2< AT TUNCTIONS Pre-b ared ADOSI +PADOSI - DUSHMAN PERIODICITY SINC 2 Abosi. PADOSI (XII) *Sin 180= 15-1 * COS 180= JIO +215 (XIII) IMPORTANT - Dom, Range, Periodicity A H A I COSB = 02+C2-102 a = b * REST CAN be DERIVED EASILY Sac COSINE RULE: Secx R-{2n+1) x [2] (-0,-1]U[1,0) SINE RULE: (XI) SINE and COSINE RULE RANGE SPECIAL Neha ma'am cotx | {R-nK, nezy COSC = a2 + 12-C2 tanx SR-(20+1)x, ne24 COSECX SR-NT, NEZY o ↑ COSA = 62 + C2-02 T-FUNCY DOMAIN TRIANGLE FOR ANY Sing C05x