+ ULTIMATE MATHEMATICS + Page1 (BY: AJAY MITTAL: 9891067390) (T-3) TRIGONOME TRY: CLASS NO: 3 (T.3) 16 we have 3A = 2A+A => ton (3A) = ton (2A+A) = ton (3A) = ton (2A) +tonA 1-ton (2A) ton A => ten(3A)[1-ten(2A) tenA] = ten(2A) + tenA => ton (3A) - ton (3A) ton (2A) tonA = ton (2A) + tonA => fon (3A) - fon (2A) -tonA = ton (3A) ton (2A) fon A D17 We han 3A= 2A+A => (o+(3A) = (o+(2A+A) = (CA (3A) = (CA (2A)(CAA -1 (0+(2A) + cot A => (CA (3A) (CA(2A) + COA(3A) (CAA = COA(2A) (CAA - ) => 1 = (OA (2A) (OA A - COA (3A) COA (2A) - COA (3A) COA A 0 NZc To proy ten (70) = ten (20) +2ten (50) we have to = 50+20 = ton (70) = ton (50+26)

ULTIMATE MATHEMATICS

Pay-2

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(T-3)

ten (70) = ten (50) + ten (20) 1-ton(50) ton(20)

= ten (70) - ten (70) tn(50) tn(20) = ten (10) + tn(20)

= ta(70) - ten(90-20) ten(50) ta(20) = ten(50) + ten(20)

= to (70) - (04/20) ton(10) to(20) = to/10) + t/20) => tn(70') - ten(50') = ten(50) + ten(20') => ten(70) = 2ten(50) + ten(20') Ans

SET-3

(1) SinA + SinB = 2 Sin(A+B). Cos(A-B)

(2) SINA - SINB= 2 COS (A+B) · SIN (A-B)

2 (c) (A+B). (cs (A-B) COA+ COB=

 $(COSA - COSB = -2 SIN (A+B) \cdot SIN (A-B)$ Simplify Sin(9A)- Sin(3A) OM 1

(d(3A) +(d(9A)

 $= \frac{1}{4} cos(6A) \cdot sin(3A) = \frac{sin(3A)}{4} \frac{1}{cos(6A) \cdot cos(-3A)} = \frac{sin(3A)}{cos(3A)}$ = tm (3A)

(ULTIMATE MATHEMATICS)
BY: AJAY MITTAL : 9891067390 1891-3 (T.3) Sin (7A) + Sin (4A) + Sin (3A) + Sin (6A) COS(6A) + COS (3A) + COS (7A) + COS (4A) ON2 (Sin (7A) + Sin (3A)) + (Sin (6A) + Sin (4A)) (col(A) +(a(MA)) + (col(7A)+(a()A)) = 25in (5A) ca (2A) + 25in (5A) ca (A) 200(SA)-CO(A) + 200(SA) CO(2A) = 25m/sA) (cas(2A) + cas(A) = tm/sA) &my ON3 (cos(431)+ (cos(23))+(cos(33)) Sin(27) + sin(31) + sin(4x) Simply (Ca(44) + ca(34)) + ca(34) (SIN(471) +SIN(2×1) + SIN(3+) dsin(34) (34) (34) + (08(34)