+ ULTIMATE MATHEMATICS -

TRIGONOMETRY CLASS NO: 6

[Sin30=1- Cas(20)

$$=$$
 $\left(1-(03^{2}\frac{3}{8})\left(1-(08^{2}-\frac{3}{8})\right)$

$$= \operatorname{Sin^2}\left(\frac{\pi}{2}\right). \operatorname{Sin^1}\left(\frac{3\eta}{2}\right)$$

$$= \left(\frac{1-\cos(\frac{2}{4})}{2}\right)\left(\frac{1-\cos(\frac{2}{4})}{2}\right)$$

$$= \left(\frac{1-t_2}{2}\right)\left(1-(3(180-45))\right)$$

Trigo class (T-6) logi-3 = 2 (4 ca3 A - 3 ca A) - 1 = 2 (16 ca 6 A + 9 ca 4 - 24 ca 4) -1 = 32 Ca6A + 18Ca2A - 48 Ca7A -1 Am Show (a)(4x) = 1-8512x cos2x Only 91m tonx = - y ; x -> IV sund find the value of sing, cosy, tenx 1-1 ton 2 M = Sec - M 5011 => 1+16= &c2x = = Sect =) Secre is -- (x -) y h quary (an= 3) 1-cax = 2sin2(2) 1+cax= 2ca2(2/2) 1-3= 25in2(x/2) 1+3= 2 Ca2 (n/v) 8 = 2 (al (ML) == 251m2(a/2) なして Sin2/2/2)=+ 7 = (a) 4/2/ 7/2-19 Sin(7/2) = + = +

Trigo class (T-6) Page 14 On 12 - 91um Sinx= - 1; X - ID h quid SELF find valuey Sin(2/2), cos(4/2), ton(4/2) 1M5 Sin(x/L) \d-13, cax = - \square, ten(x/L)= \square, -2 On13+ 91 cm (ax=-1) 7 < x < 37 Suy Fred Sin(7/2), car/2, ten 7/2

Ams 5=, -1, -52 Om-14 + Show that Sintsy) - 25in(3x) + 5inx = fenx COS(5x) - COX Our 15 + find value y ton (2/8)

5013 m hay ton (201 = 2 ton 0

1-ton 20

put 0 = 2/8

= ton (2/4) = 2 ton (2/8)

1-ton (2/8) 3=180=45 { let ton (3/8/= x) N= -1 + 52 => /- x= 2x x=-1+52 | x=-1+52 = x2+24-1=0 Han(2/8/= 52-1) ta(2)=-1-52 Dry Premy イ= 一2 ± / 4 + 4 7 = -2 ± 252

QMIT Show that SELF tanA + tan (60°+A) - tan (60°-A) = 3 tan (3A) (SELF snow that Sin(4A)- 4sinA cos3A - 4caA sin3A