Review Proves seco coto sino - coso seco coto-sino = 1 coso - sino = \_\_\_\_ sind - 1- sin 2 sind - Co30 / 1 + cot -t = csc2t- cott 1+ cot 3t = (1+cott) (1-cott + cott) 1 + Cot t 1+cett 1 - coft + coft. 1 - coff + csc2t-1 = csc2t - coft

= seca - fanc Ces a 1 + pen a Cosa 1-sina CU500 = 1- sina 1- sina 1+ sina (1- sind) - Cos x (1- sui x) Cosoa - L-sina - Cox - Sina - Sina - Seca - Jana tan x = sec x \_ sin x \_ cos x sccx- sinx-cox= secx- (sinx+cosx) = pccx -1 = Fan x fan x = sec x-1  $= pec^2x - (cs^2x + pi^2y)$   $= pec^2x - cs^2x - pi^2x$ 

10 csc2x - 6 cot x = 4 csc x + 6 10 csc2x - 6 cot x = 10 csc2x - 6 (csex-1) = 10 coc x - 6 coc x + 6 = 4 Csc<sup>2</sup>x +6 V Cofx Cscx-1 Cx 2 + 2 cocx +1 cscx+1 COCX-1 COCX+1 Cocx-1 Cocx fl Cocx+1 COCX+1  $coc^2x - 1$ Cocx+2csex+1  $=\frac{\cot^2 x}{\cot^2 x + 2\cot x + 1}$ + 1+ sein x - 2 se CX Cerx 14 puix 1 + sin x - Cos x + (1+ sin x)

Cos x - (1+ sin x) Cesx 14 suix - Cox+1+2 siny+sin'v COSX (1+ sinx) - 2+2 sinx CUDX (1+ sinx) = 2 (1+ sux) Cesx (1+ suix) = 2 peex

Coty - tanx Ces (8+9 cety + toux cis (x-9) Corres \_ Sinx 51/25 Ces (x+y) Corx siny COX sury CV3 (x-y) Cox cory + sin x sury
Cox say Cot & - Fanx - coty + tanx - coty - cotx sun (x-2) suix suny sinx cry - coxxxiny sin (x-y)\_\_ mi x sury suix suig - sin x cery Corx sing sin x seng sin x sing = coty - cotx

CSC (x-y) = sinx cosy + cosx sing sinx - sing  $csc(x-y) = \frac{1}{sin(x-y)} \frac{sin(x+y)}{sin(x+y)}$ min (x+8) [ sinx pery - cox siny (sinx cory + cox siny) - sin (x + y) sin2x cos2y - cos2x sin2y sin (X+5) sin x (1-sin y) - (1-sin x) sin y - sin (x +5)

sin 2x - sin 2x sin 2y - sin 2y + sin 2x sin 2y - sinx cosy + cosx sing

Cos 3x = cos x \_ 3 Cos x sin x Ces 3x = Ces (2x+x) - Cos 2x cesx \_ sin 2x sinx = (cox-sinx) cox - 2 sinx cox = cos x \_ sin x cox - 2 sin x cos y - CO3x - 3 CDX sinx Sen 25 x = (4 sin x cosx) (2cos x - 1) su 4 x = sin 2 (2x) - 2 sin 2x CO32X - 4 suix cox (2002x-1)~

Cos 4x = Cos 4x - 6 sen x Cos x + sin 4x Cos4x = Cos2(2x) = cus 2x \_ sin 2x = (Ceox - sin x) - (2 sin x Cox) = Ces4x - 2 cos x sin x + sin 4x - 4 sin x cos x - cos 4x - 6 cos x sin x + sin x ~ Corax = 2 cot x - csc x Ces2x - 2 Ces2x - 1

sin2x

sin2x = 2 cot x - cse x /

$$\int_{0}^{\infty} \frac{x}{x} \cos^{2}x - \sin^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} \cos^{2}x - \left(\sin^{2}x \cos^{2}x\right)^{2}$$

$$= \left(\frac{1}{x}\sin^{2}x\right)^{2}$$

$$= \left(\frac{1}{x}\sin^{2}x\right)$$

$$= \frac{1}{x}\sin^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} - \frac{1}{x}\cos^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} - \frac{1}{x}\cos^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} - \frac{1}{x}\cos^{2}x$$

$$= \frac{1}{x}\cos^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} - \frac{1}{x}\cos^{2}x + \cos^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} - \frac{1}{x}\cos^{2}x + \cos^{2}x + \cos^{2}x$$

$$\int_{0}^{\infty} \frac{x}{x} - \frac{1}{x}\cos^{2}x + \cos^{2}x + \cos$$

 $\frac{1}{\omega x} - \frac{2\omega x}{\omega x} + \frac{2\omega^2 x}{\omega x}$  $\frac{1}{\cos x} - \frac{\cos^2 x}{\cos x}$ = secx - 2 + cox

secx - cox - sin 4t = cest sint - sin 3t cest 1 suitt - 1 sin 2 (24) = 1 2 sin 24 cos 2 t = 1 (2 sint cost) (cost - sint) - cost print - pin3 + cost

About 62 am 12/9 12:30 (45) pane s log, Tean maximize polf (150 x) exam has 2 pages Inead papers s Before you skut you caam write formla Cos (4 +15) - cos as - sin 5in Sin ( + ) \_ sein cos q cos sin CUS 2A - 2 cus 2A - 1 - Cus 2A - sui 1 = (-2 mi 1 A