	- ULTIMATE MATHEMATICS HAME
BY: A	JAY MITTAL TRIgonome by Page 1
	Workshew Mar 1 (Solations)
Ou 1	295 (510) (05(330) + 51n(390) (08(120)
	= (05 (5×96+60) · (05 (360-30) + 51n (360+30) · (05 (180-60)
	= - SIn(60). (08(20) + SIn(30). (- (0360)
	= -5 x 5 + 1(-1)
	= -3 -4 = -4 = -1 Any
On 2	(03/660) ·SIn(330) - SIn (420) (08/390)
	= (08 (7x90 +30) . Sin (360-30) - Sin (360+60) . COS (360+30)
	= Sin(30) (- Sin30) - Sin(60) (30)
	= + x(-1) - \frac{1}{2} \times \frac{1}{2}
	=
ON 3-1	ten(225) Cot (405) + ten (765) Cot (675).
=	ten (180+45) (ot (860+45) + ten (8x90+45) (01(7x90)
	= ten(45). (ot (45) + ten(45) * (-ten 45)
	=  x  +  x(-1)  = $ -  = 0   \Delta ny$

BY: ADY MITTAL MATHEMATICS Page 2 clasemate Ons 4 + ton (720) - cos(270) - sin(150) cos(120) = ton (8x96 +0) - (08(180+90) -SIN (180-30) (08(180+60)) = ten(0) - cos(90) - Sin (30) x (-cos 60) = 0-0 - 1 x(-1) ONS+ d Sin2(2) + coxc2(72) .cos2(3) = 2512 (30) + carce (210) . car (80) = 2xy + (acc2 (180+30) · (1)2 = 2xy + (acc2 (30) xy hai islige) = 1 + (2) xd = \frac{1}{2} + 1 = 3/2 dms on 6 ten ( 113) - 251 (43) - 3 cosec (3) + 4cos (173) = ten (660) - Jsm (120) - 3 (0xc2/45) + 4002 (510) = tm (7x90+30) - 25in (180-60) - 3 (0xe2/45) + 4co3 (5x90 +60)

= -cot (30) - 25in (60) - 3 (0xe(2/41)) + 45in2(60)

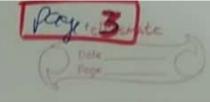
- -cot (30) - 25in (60) - 3 (0xe(2/41)) + 45in2(60)

- - 55 - 2x55 - 3 (52)2 + 4(53)2 - 24 moni ay 99

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$$= -\sqrt{3} - \sqrt{3} - \frac{3}{2} + 3 = -86 + \frac{3}{2}$$

$$= \frac{3 - 46}{2} \quad \text{Am}$$

$$= 1 = RM \qquad DM$$

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$$= Sin(180+0) \cdot CO1(90+0) + m(270-0) \cdot (ot(360-0))$$

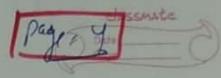
$$= Sin(360-0) \cdot CO3(360+0) \cdot (OS(10) \cdot CO1(360-0))$$

$$= 1 = RM \qquad DM$$

$$= Sin(180+0) \cdot CO3(360+0) \cdot (OS(10) \cdot CO1(360-0))$$

$$= 1 = RM \qquad DM$$

## 134. AJAY MITTAL



$$= \frac{\sin^2 \alpha \cdot \cot^2 \alpha}{\sin^2 \alpha}$$

$$= \frac{\cos(\frac{32}{2} + x) \cdot \cot(\frac{23}{2} + x)}{\cos(\frac{36}{2} + x)} \cdot \cot(\frac{36}{2} + x)}$$

$$= \frac{\sin^2 \alpha \cdot \cot \alpha}{\cos(\frac{36}{2} + x)} \cdot \cot(\frac{36}{2} + x)}{\cot(\frac{36}{2} + x)} + \cot(\frac{360 + x}{\alpha})$$

$$= \frac{\sin^2 \alpha \cdot \cot \alpha}{\cos \alpha} \cdot \cot(\frac{360 + x}{\alpha}) + \cot(\frac{360 + x}{\alpha})$$

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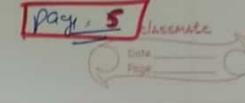
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$$= \frac{\cos^2 \alpha \cdot \cot \alpha}{$$

## BY= AJAY MITTAL



$$\frac{3}{5} \frac{5 \ln^2 \Phi}{\cos \theta} = \frac{3 \sin \Phi}{\sin \theta}$$

$$\frac{3}{5 \ln^2 \Phi} = \frac{3 \sin^2 \Phi}{5 \ln \Phi} = \frac{5 \sin \Phi}{\cos \theta}$$

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$$\frac{3}{5 \ln^2 \Phi} = \frac{3 \sin^2 \Phi}{5 \ln \Phi} + \frac{3 \sin^2 \Phi}{\cos \theta} + \frac{3 \sin^2 \Phi}{\cos \theta}$$

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$$\frac{3 \sin^2 \Phi}{5 \ln^2 \Phi} = \frac{3 \sin^2 \Phi}{5 \ln^2 \Phi} + \frac{3$$

= - cgs + corb = 0 Am