

ex.	sin²x =	$\cos x - \cos^2 x$
	$\overline{\text{secx} + 1}$	

	Left-Hand Side	Right-Hand Side
Mulitply secx +1 by it's conjugate (secx - 1)	Sin <sup>2</sup> X (sec X-1) (Sec X+1)(sec X-1)	C05X-C05 <sup>7</sup> X
	Sin <sup>2</sup> X(secx-1)	
Replace sec <sup>2</sup> x - 1 with tan <sup>2</sup> x because they are equal	<u>Sec X-1</u> <u>Sin<sup>2</sup>X(secx-1)</u> tan <sup>3</sup> X	
Turn tan <sup>2</sup> x into sin <sup>2</sup> x/cos <sup>2</sup> x and divide fractions	<u>Cos<sup>2</sup>X</u> Sun <sup>2</sup> X(secx-1)	
Change secx into reciprocal 1/cosx.	$\cos^2 X \cdot \sec X - \cos^2 X$	
Divide out cosx	(05X-02,X	∴LHS=RHS



ex.	<u>sinθ + cosθ</u>	<u>θ</u> = <u>sinθ</u>
	secθ + cscθ	θ secθ

	Left-Hand Side	Right-Hand Side
Turn secθ and cscθ into their reciprocal functions	SIN 0 + (050 (Sino) 1 + 1 (050) (Sino) (050 5'100(050)	Sint Cost
Multiply by opposite function to make a common denominato (sinθcosθ)	Sinotcoso Sinotcoso Sinocoso	Sing. Os O
cancel reciprocal	Sind(050	:.OED