(9) R.H.S = 
$$\sin^2\theta \frac{\cos^2\theta}{\sin^2\theta} + \frac{\sin^2\theta \cdot \sin^2\theta}{\sin^2\theta}$$
  
=  $\frac{\sin^2\theta}{\sin^2\theta} \frac{(\cos^2\theta + \sin^2\theta)}{\sin^2\theta} = 1 = L.H.S$ 

$$U L.H.S = cosec^20 = \frac{1}{sin^20}$$

145in0 (HSiND) (1+5inD) 1+5in20 + 25inD 1-5in0 = (1-5inD) (1+5inD) 1-5in20 1+5:NO+25in Cos 70 = - coso + tem20 + 2tand aso = sec20 + tam20 + 2 tan 0 sec 0 = (tan20+1) + tan20 + 2 tan0 see0 = 2 tom20 + 1 + 2 ten Osec0 = R.H.s 1+5/m = 2+an 0 + 1+2+an seed (promed in 2014) = 2 tan 0 + (see 0-tem 0) + 2tan 0 seco = tem30 + sec30 + 2+an0 sec0 = Ctem0 + seco) = R.H.S.  $(16) \frac{\cos \theta + 1}{\cos \theta - 1} = \frac{(\cos \theta + 1)(\cos \theta + 1)}{\cos^2 \theta - 1} = \frac{\cos^2 \theta + 2\cos \theta + 1}{\cos^2 \theta - 1}$ - sin'0 - 2 - 2 cos 19