

1) $\sin^2\beta + \tan^2\beta + \cos^2\beta = \sec^2\beta$

2) $\cos^2x - \sin^2x = 2\cos^2x - 1$

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3) $\sin^2 y (\csc^2 y + \sec^2 y) = \sec^2 y$

4) $\sec^2 \theta + \csc^2 \theta = \sec^2 \theta \csc^2 \theta$