Answer on Question #47730 - Math - Trigonometry

Show that it is an identity by transforming the side of each one into the right side. $1-\sin/\csc=\cos^22$

Solution

Use trigonometric identity
$$\sin^2(x) + \cos^2(x) = 1$$

 $1 - \sin(x)/\csc(x) = 1 - \sin(x)/(1/\sin(x)) = 1 - \sin(x)*\sin(x) = 1 - \sin^2(x) = \cos^2(x)$.