A practical example

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A Practical Example

1. Prove that $\frac{sinA}{1+cosA} + \frac{cosA}{sinA} = cscA$: Solution

Starting from left:
$$-$$
 (1)

$$\frac{sinA}{1+cosA} + \frac{cosA}{sinA} = \frac{sinA \cdot sinA + cosA(1+cosA)}{(1+cosA)sinA}$$
 (2)

$$\frac{\sin^2 A + \cos A + \cos^2 A}{(1 + \cos A)\sin A} \tag{3}$$

Then cancelling both
$$1 + \cos A$$
: (4)

$$\frac{1 + \cos A}{(1 + \cos A)\sin A}\tag{5}$$

$$\frac{1}{\sin A} = \csc A \tag{6}$$

This example is generated with: simtex -b -i='examples/2/example_2.md' - T='A practical example' -a='iaacornus'