Question:

Prove that: $tan(55 + x) = cos(55 - x)$

Solution:

Check this equality for $x = 0$

$$\tan(55° + 0°) = \cos(55° - 0°)$$

$$\tan 55° = \cos 55°$$

$$\tan 55° = 1.4281$$

$$\cos 55° = 0.5736$$

$$1.4281 \neq 0.5736$$

Equality doesn't correct for $x = 0$, therefore this is not equality. So this cann't be proved.