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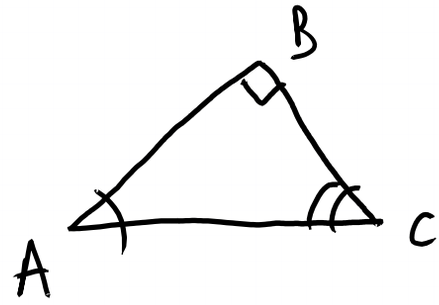
b) a) ... les 2 angles aigus sont $< 90°$

$\rightarrow \hat{A} + \hat{C} = 90°$

$\cos \hat{A} = \frac{AB}{AC}$

$\sin \hat{A} = \frac{BC}{AC}$

$tg \hat{A} = \frac{BC}{AB}$



$\cos \hat{C} = \frac{BC}{AC}$

$\sin \hat{C} = \frac{AB}{AC}$

$tg \hat{C} = \frac{AB}{BC}$

$\rightarrow \cos \hat{A} = \sin \hat{C}$; $\sin \hat{A} = \cos \hat{C}$

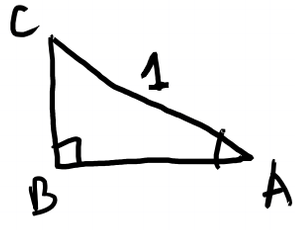
$tg \hat{A} = \frac{1}{tg \hat{C}}$; $tg \hat{C} = \frac{1}{tg \hat{A}}$

⚠ $\hat{A} + \hat{C} = 90° \Rightarrow \hat{C} = 90° - \hat{A}$

Alors: $\cos(90° - \hat{A}) = \sin(\hat{A})$

$\sin(90° - \hat{A}) = \cos(\hat{A})$

$tg(90° - \hat{A}) = \frac{1}{tg(\hat{A})}$



$\Rightarrow$ Pythagore: $AB^2 + BC^2 = 1$

$AB = \cos \hat{A}$; $BC = \sin \hat{A}$

$\Rightarrow \cos^2 \hat{A} + \sin^2 \hat{A} = 1$