



Air maths tuition

Interact, engage and perform

## Inverse Trig. Functions: examples (2)

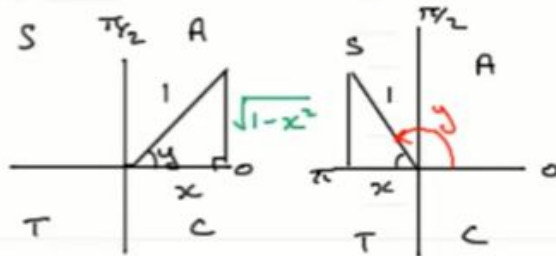
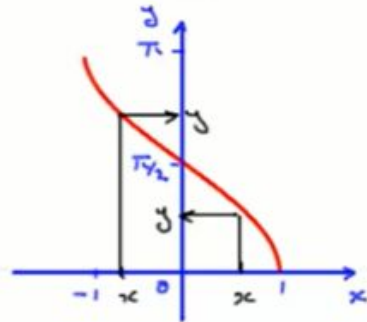
iii) Find the exact value of  $\tan(\arccos x)$

$$\text{let } y = \arccos x$$

$$\therefore \cos y = x$$

$$\therefore \tan y = \frac{\sqrt{1-x^2}}{x}$$

$$\therefore \tan(\arccos x) = \frac{\sqrt{1-x^2}}{x}$$



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