



Air maths tuition

Interact, engage and perform

Inverse Trig. Functions: examples (1)

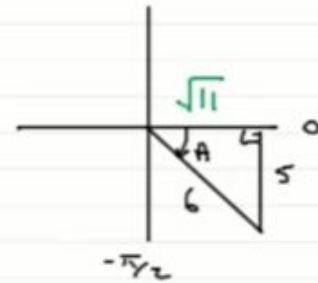
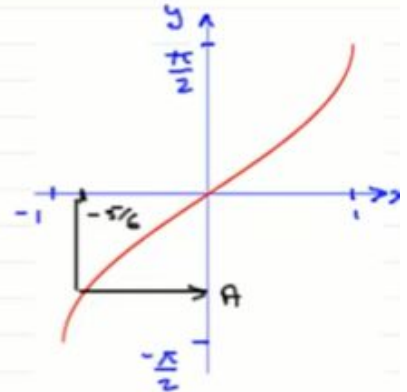
iii) Find the exact value of $\tan\left[\arcsin\left(-\frac{5}{6}\right)\right]$

$$\text{let } A = \arcsin\left(-\frac{5}{6}\right)$$

$$\therefore \sin A = -\frac{5}{6}$$

$$\therefore \tan A = -\frac{5}{\sqrt{11}}$$

$$\therefore \tan\left[\arcsin\left(-\frac{5}{6}\right)\right] = -\frac{5}{\sqrt{11}}$$



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