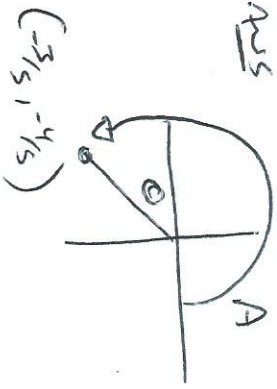


Q.13

FIND A CORNICE TO NORMSIT<sup>o</sup>  
IF  $\sin A = -\frac{4}{5}$   $\cos A = -\frac{3}{5}$

ANS



$$\therefore \tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$= \left(-\frac{4}{5}\right) \left(-\frac{3}{5}\right)$$

$$\tan \theta = \frac{4}{3}$$

$$\theta = \tan^{-1} \left(\frac{4}{3}\right)$$

$$= 53^\circ$$

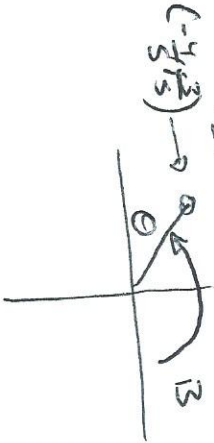
$$\therefore A = 180^\circ + 53^\circ$$

$$= 233^\circ$$

Q.14

IF  $\sin B = \frac{3}{5}$  AND  $\cos B = -\frac{4}{5}$   
FIND THE VALUES OF  $\tan B$   
WITHOUT USING A CALCULATOR.

ANS



$$\tan \theta = \frac{3}{-4} = -\frac{3}{4}$$

$$= \frac{3}{5} \cdot \frac{-4}{4} = -\frac{12}{20}$$

$$\tan \theta = -\frac{3}{4}$$

$$\therefore \tan B = \tan \theta$$

$$= -\frac{3}{4}$$

$$\left\{ \begin{array}{l} B = 143^\circ \text{ i.e. } \sin^{-1} \left(\frac{3}{5}\right) \\ \text{OR} \\ B = 217^\circ \text{ i.e. } \sin^{-1} \left(-\frac{3}{5}\right) \end{array} \right.$$

Q.15 IF  $\tan B = \frac{1}{\sqrt{3}}$

$$\sin B = \frac{1}{2}$$

FIND  $\cos B$

$$\therefore \tan B = \frac{\sin B}{\cos B}$$

$$\Rightarrow \cos B = \frac{\sin B}{\tan B}$$

$$= \frac{1/2}{1/\sqrt{3}}$$

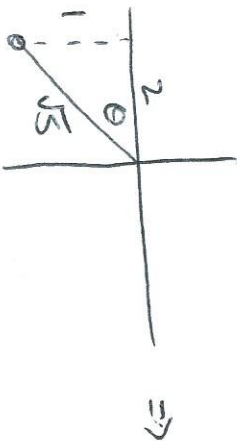
$$\cos B = -\frac{\sqrt{3}}{2}$$

CRP  
12

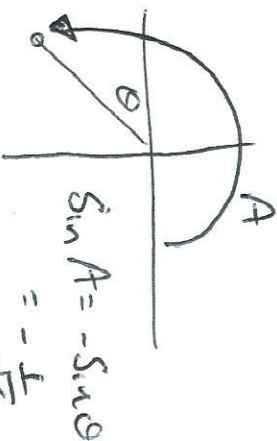
Q.16 IF  $\tan A = \frac{1}{2}$  AND

$180^\circ < A < 270^\circ$ . FIND

$\sin A$  in Surd Form.



$$\left(-\frac{2}{\sqrt{5}}, \frac{1}{\sqrt{5}}\right)$$



$$\sin A = -\sin \theta = -\frac{1}{\sqrt{5}}$$

Q.17 FIND  $\sin 420^\circ = \sin 420 - 360$

$$\sin 420 = \sin 60 = \frac{\sqrt{3}}{2}$$

$$\text{ii) } \cos 495^\circ = \cos 495 - 360^\circ = \cos 135^\circ$$

$$= -\cos 45^\circ = -\frac{1}{\sqrt{2}}$$

$$\text{iii) } \tan(-120^\circ) = \tan 240^\circ$$

$$= \tan 60^\circ = \sqrt{3}$$