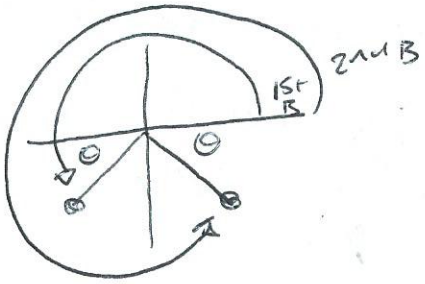
EXAMPLE (5)

FIND THE 2 VALUES FOR B

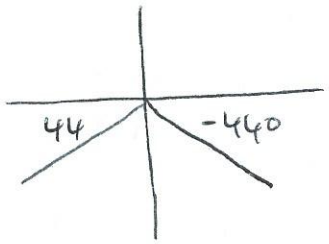
IF $\sin B = -0.6947$



$\sin B = -0.6947$

$B = \sin^{-1}(-0.6947)$

$= -44°$



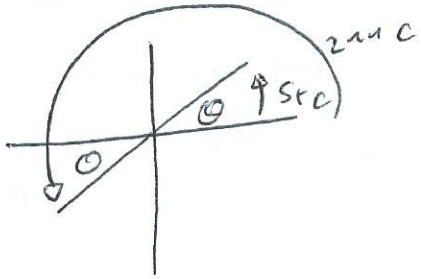
$\therefore 1^{st} \angle B = 360 - 44 = 316°$

$2^{nd} B = 180 + 44 = 224°.$

EXAMPLE (6)

FIND 2 VALUES FOR C

IF $\tan C = 0.9325$



$\therefore \tan C = 0.9325$

$C = \tan^{-1} 0.9325$

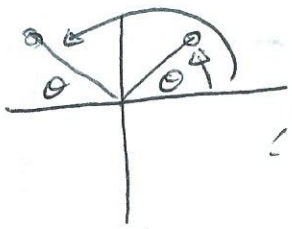
$C = 43°$

$\therefore 1^{st} C = 43°$

$2^{nd} C = 180 + 43 = 223°.$

EXAMPLE Q.9.

IF $\sin\theta = \frac{1}{2}$ FIND 2 VALUES FOR θ.



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

$\theta = 30°$

$\therefore 1^{st}\theta = 30$

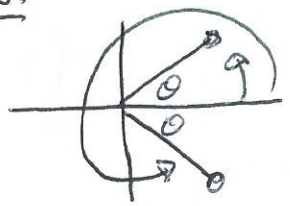
$2^{nd}\theta = 180 - 30°$

$= 150°$

(WATCH OUT FOR NOTATION RE θ)

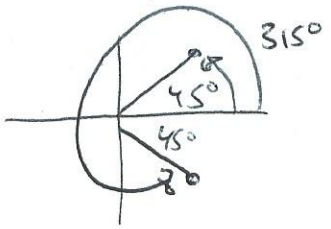
Q.10 IF $\cos\theta = \frac{1}{\sqrt{2}}$ FIND 2 VALUES FOR $\tan\theta$.

ANS



$\cos\theta = \frac{1}{\sqrt{2}}$

$\theta = 45°$

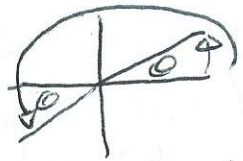


$\therefore \tan 45 = 1$

$\tan 315 = -1$

(careful with signs)

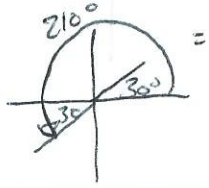
Q.11 IF $\tan A = \frac{1}{\sqrt{3}}$ FIND 2 VALUES FOR $\cos A$.



$\tan A = \frac{1}{\sqrt{3}}$

$A = \tan^{-1}\left(\frac{1}{\sqrt{3}}\right)$

$= 30°$



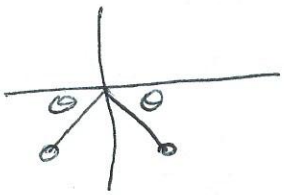
$\cos 30 = \frac{\sqrt{3}}{2}$

$\cos 210 = -\frac{\sqrt{3}}{2}$

Q.12

IF $\sin\theta = -\frac{\sqrt{3}}{2}$ FIND 2 VALUES $\cos\theta$ WITHOUT CALC.

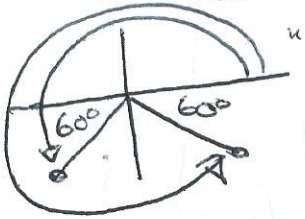
ANS



$\sin\theta = -\frac{\sqrt{3}}{2}$

$\theta = \sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$

$\theta = -60°$



"FROM MEMORY NO CALCULATOR."

FIND $\cos 240°$ AND $\cos 300°$.

$\therefore \cos 240 = -\cos 60°$

$= -\frac{1}{2}$

$\cos 300 = \cos 60$

$= \frac{1}{2}.$