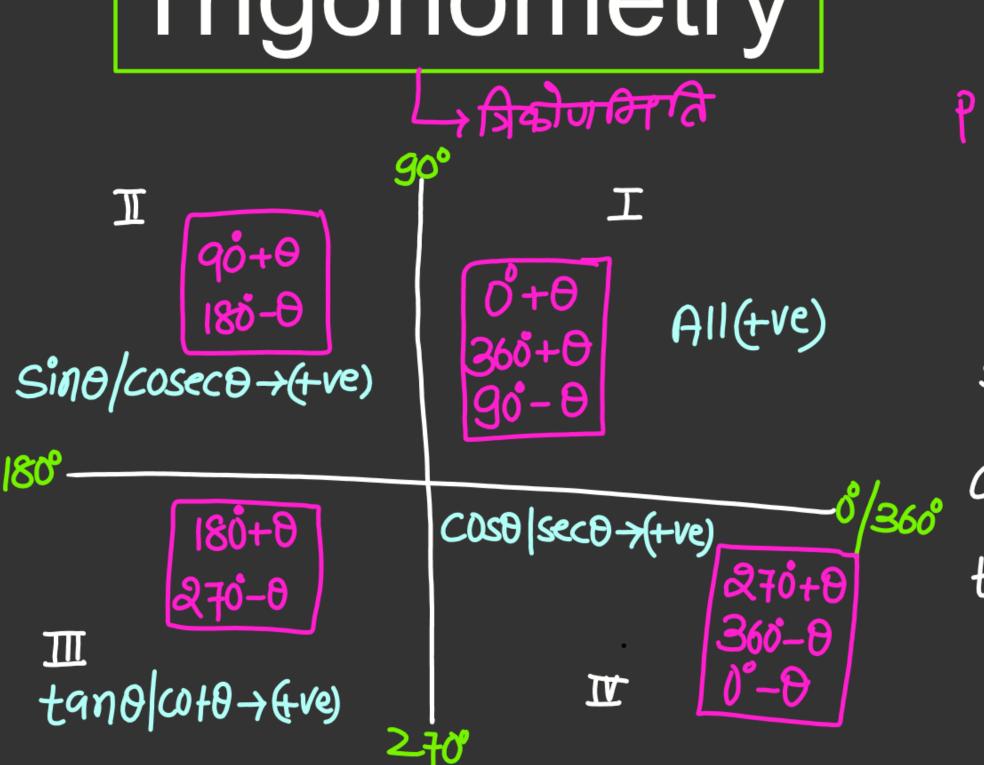
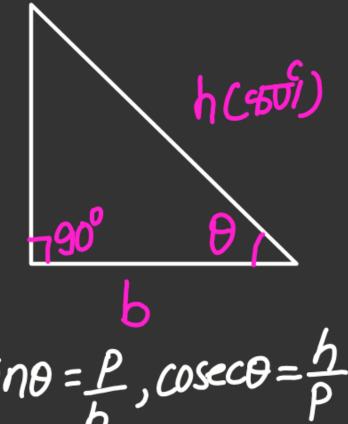
Trigonometry





Sin
$$\theta = P$$
, $cosec\theta = \frac{h}{P}$
 $cos\theta = \frac{h}{h}$, $sec\theta = \frac{h}{h}$
 $ten \theta = \frac{h}{h}$, $cof\theta = \frac{h}{P}$

(i) 90, 270, 450, 630° · · · · · · 90 के निषम ऋणज पर मान Change होता है। 90x1 90x3 90x5 90x7

$$Sin\theta \Longrightarrow cos\theta$$

$$tqn\theta \Longrightarrow cot\theta$$

$$Sec\theta \Longrightarrow cosec\theta$$

(ii) 0°, 180°, 360°, 540°, 720°, - - - - - - - 90 में समग्रणज परमान Change 90x0 90x2 90x4 90x6 90x8 जहीं होता हैं। I

$$\sin(90-\theta) = \cos\theta$$

$$\cos(90-0) = \sin\theta$$

$$tqn(qo-0)=cot0$$

$$\cot (90-\theta) = t9n\theta$$

$$Sec(90-0) = COSECO$$

$$cosee(90-\theta) = Sec\theta$$

$$sin(360+\theta) = sin\theta$$

$$tan(360+0) = tan0$$

$$\cot(360+\theta) = \cot\theta$$

Sec
$$(360+\theta) = \sec\theta$$

$$Cosec(360+\theta) = Cosece\theta$$

2nd

$$sin(90+\theta) \rightarrow + cos\theta$$

$$\cos(90+\theta) \rightarrow -\sin\theta$$

$$tan(90+0) \rightarrow -cot\theta$$

$$\cot(90+0) \rightarrow -\tan\theta$$

$$Sec(90+\theta) \rightarrow - COSECB$$

$$COsee(90+0) \rightarrow + Seco$$

0/180/360

$$Sin(180-\theta) \rightarrow + sin\theta$$

$$\cos(180-\theta) \rightarrow -\cos\theta$$

$$Cot(180-\theta) \rightarrow -COtO$$

$$(1) \cos(-\theta) = \cos\theta$$

$$Sin(-\theta) = -Sin\theta$$

$$tan(-\theta) = -tan\theta$$

$$(I)$$
 Sec(- θ) = Sec θ

$$\cot(-\theta) = -\cot\theta$$

$$\Rightarrow Sin(-\theta) = Sin(o^2 - \theta) = -Sin\theta$$

$$\Rightarrow \cos(-\theta) = \cos(0^{\circ}-\theta) = +\cos\theta$$

D→ C°	30°	45° 124	1360°	90°	$in1\dot{s} = cos7\dot{s} = \frac{13-1}{2\sqrt{2}}$	
Sin0→0	7 2	1/2	2			
coso→1	<u>√3</u>	1/2	12		$0515^{\circ} = \sin 75^{\circ} = \frac{\sqrt{3} + 1}{2\sqrt{2}}$	
tano -> 0	13	1	√3		$tanis = cot7s^2 = \frac{\sqrt{3}}{\sqrt{3}}$	7
C010 - 00	√3	1	1/3	O (iv)	(0+15°=t9n7\$=\f	3 ₁
Seco -> 1	2/3	T2	2	∞ Si	າ 1	3-
૮૦ઙ૯૦૦) →	2	15	<u>2</u> V3	1		

$$3^{8}9$$

$$+ COSRIO' = COS(180+30) = -COS30'$$

$$= -\sqrt{3}$$

$$\frac{2^{nd}}{Sin(90+30)} = +\cos 30$$

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

$$\frac{2^{nd}}{2}$$

$$\sin(180-60) = +\sin 60$$

$$= \sqrt{3}$$

$$tan(-210) = -tan(180 + 30)$$

= $-x + tan(30)$
$Cos(-390)$
= $-tan(30)$
= $-tan(30)$
= $-tan(30)$

$$Cos(-390^\circ) = cos 390^\circ = cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$# t9n(-480) = - t9n480$$

$$= -t90120$$
 $= -t90120$
 $= -t90120$

$$=-X-C0t30$$

$$=+\sqrt{3}$$

$$Sin(930) = Sin(80)$$

= $Sin(180+30)$
= $-Sin(30) = -\frac{1}{2}$

$$COS(-1230) = COS 1230 = COS/50$$

2nd

 $COS(50) = COS(50) = COS(90+60)$

$$= -\sin 60$$
 $= -\sqrt{3}$
 $= -\sqrt{3}$
 $= \sqrt{80}$
 $= \sqrt{80}$
 $= \sqrt{80}$