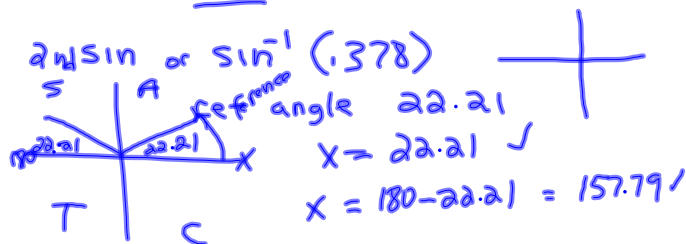


Trigonometry

Last Year Question #9

$$\sin x = .378$$

Find both values of x



Ex #2

$$\cos x = -.841$$

1. Find reference angle (ignore negative)

$$\text{and } \cos(.841)$$

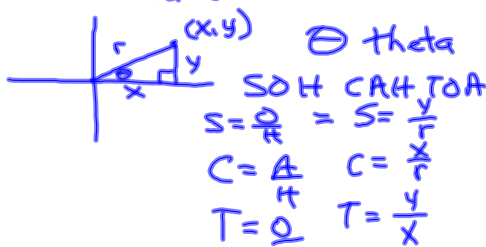
$$= 32.75$$

2. Draw ref Angle in $180 - 32.75$

$$x = 180 - 32.75 = 147.25$$

$$x = 180 + 32.75 = 212.75$$

Q#3



#1

if θ is formed by going through the point $(-5, 12)$

$$\text{Find } \cos \theta = \frac{x}{r} = \frac{-5}{13}$$

$$\sin \theta = \frac{y}{r} = \frac{12}{13}$$

$$a^2 + b^2 = c^2 \quad (r = 13)$$

$$x^2 + y^2 = r^2$$

$$(-5)^2 + (12)^2 = r^2$$

$$169 = r^2$$

#2



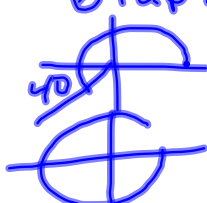
Q2 $\sin \theta > 0$ $\tan \theta < 0$

Q3 $\sin \theta < 0$ $\cos \theta < 0$

#1 Finding related (reference) angle
 How close it is to x axis

or how close to $0, 180, 360, 540 \dots$

a) 98° 82°

	Graph	numbers
re		0, 180, 360, 540
Angle		
220		$220 - 180 = 40$
-315		$360 - 315 = 45$
120		$180 - 120 = 60$