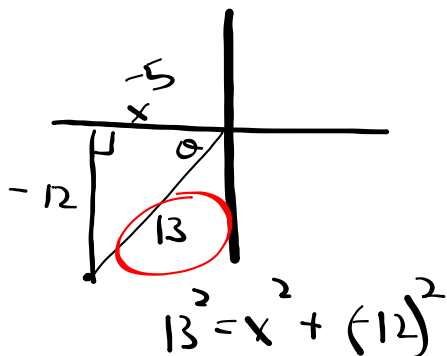


$$1. \sin \theta = -\frac{12}{13} \quad \begin{array}{l} \text{opp} \\ \text{hyp} \end{array} \quad \frac{y}{r} \quad \theta \text{ in Q3}$$



$$13^2 = x^2 + (-12)^2$$

$$x^2 = 25$$

$$x = \pm \sqrt{25}$$

$$x = -5$$

$$\cos \theta = -\frac{5}{13}$$

$$\tan \theta = \frac{-12}{-5} = \frac{12}{5}$$

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$$\#2 \quad \sin \theta = -0.8660$$

$$\text{Soln I} \quad \theta_r = \sin^{-1}(0.8660)$$

$$\theta_r = 60^\circ$$

II Sin is Neg in

$$\text{Q3: } \theta = 180 + 60$$

$$\theta = \underline{240}$$

$$\text{Q4: } \theta = 360 - 60 \\ = 300$$

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#3 a)  $\sin 90^\circ = 1$

b)  $\tan 90 = \frac{Y}{X}$   
 $= \frac{1}{0}$  und

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④ Solve for  $\theta$

a)  $\tan \theta = 1.4122$

Soln I  $\theta_r = \tan^{-1}(1.4122)$   
 $\theta_r = 55^\circ$

II  $\tan$  is pos in:

Q1  $\theta = 55$

Q3  $\theta = 180 + 55$   
 $\theta = 235^\circ$

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$$\textcircled{5} \quad \sin \theta = -.3205$$

$$\text{I} \quad \theta_r = \sin^{-1}(.3205)$$

$$\theta_r = 19^\circ$$

\* do not include  
Neg in this STEP

(use it in part  
II of sin)

II Sin is Neg in

$$\text{Q3} \quad \theta = 180 + 19$$

$$= 199$$

$$\text{Q4: } \theta = 360 - 19$$

$$\theta = 341$$

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