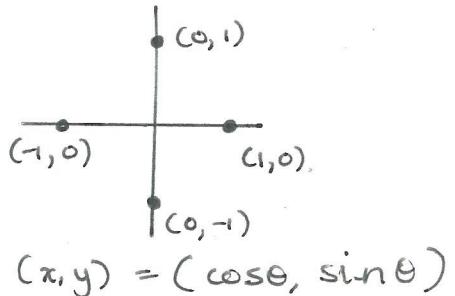
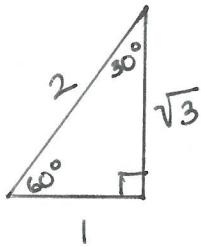
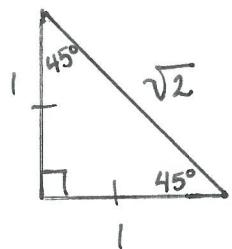
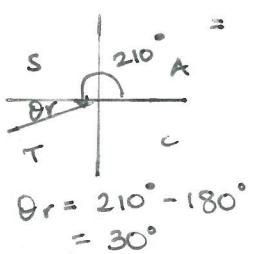


Please begin by drawing the special triangles and axis angles diagram.

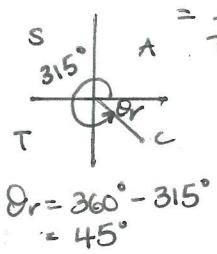


1. Evaluate with exact answers. Show necessary work.

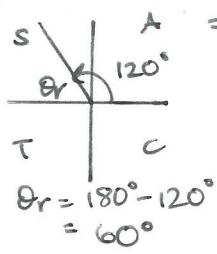
a)  $\sin 210^\circ$   
=  $-\sin 30^\circ$  ✓



b)  $\cos 315^\circ$



c)  $\csc 120^\circ$

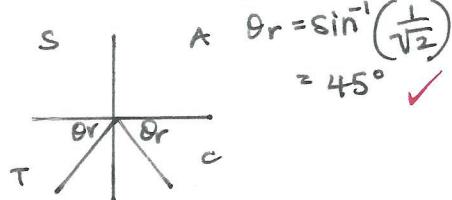


d)  $\tan 270^\circ$

$$\begin{aligned} &= \frac{y}{x} \\ &= \frac{-1}{0} \\ &= \text{undefined} \end{aligned}$$

2. Determine the value(s) of  $\theta$  for  $0^\circ \leq \theta \leq 360^\circ$ . Show necessary work.

a)  $\sin \theta = \frac{-1}{\sqrt{2}}$

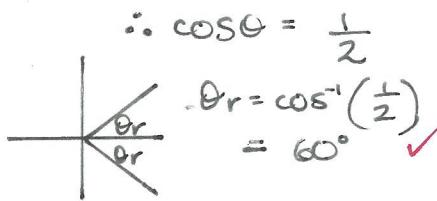


Q3:  $\theta = 180^\circ + 45^\circ$   
=  $225^\circ$

Q4:  $\theta = 360^\circ - 45^\circ$   
=  $315^\circ$  ✓

$\therefore \theta = \{225^\circ, 315^\circ\}$

b)  $\sec \theta = 2$



c)  $\csc \theta = \text{undefined}$

$$\begin{aligned} \csc \theta &= \frac{r}{y} \\ &= \frac{\pm 1}{0} \end{aligned}$$

where is the y-coord zero?

Q4:  $\theta = 360^\circ - 60^\circ$   
=  $300^\circ$  ✓

$\therefore \theta = \{60^\circ, 300^\circ\}$

$\therefore \theta = \{0^\circ, 180^\circ, 360^\circ\}$  ✓