

DEFINITION: REFERENCE ANGLE IN STANDARD POSITION  
IS THE POSITIVE ACUTE ANGLE WITH  
THE X-AXIS.

PreCalc B

Name \_\_\_\_\_

KEY

ID: 1

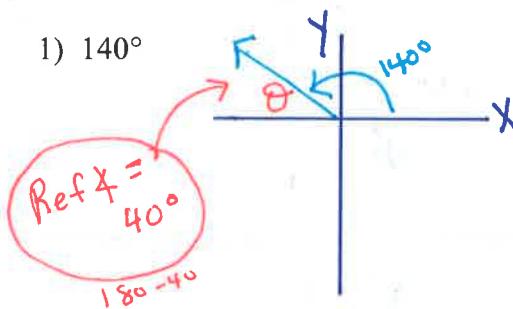
## 6.0 Trig. Review

### STUDY TIPS

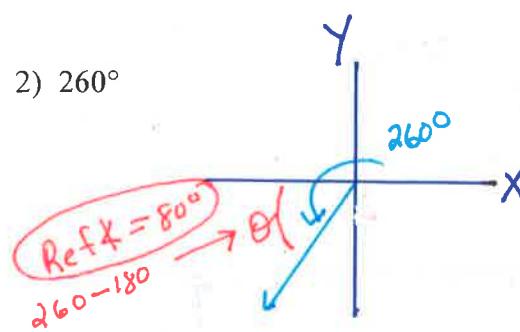
Date \_\_\_\_\_

Sketch and clearly label the reference angle.

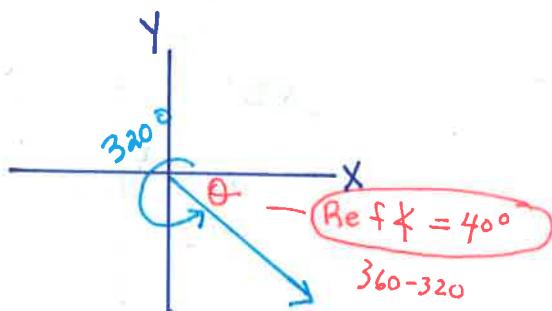
1)  $140^\circ$



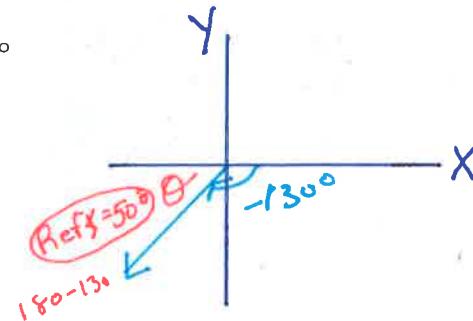
2)  $260^\circ$



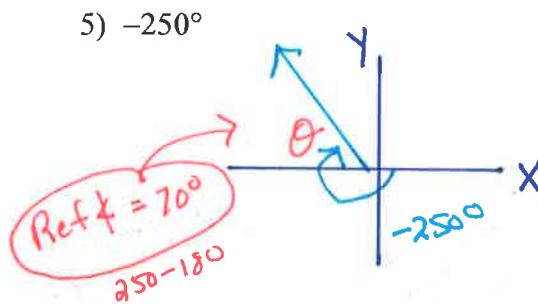
3)  $320^\circ$



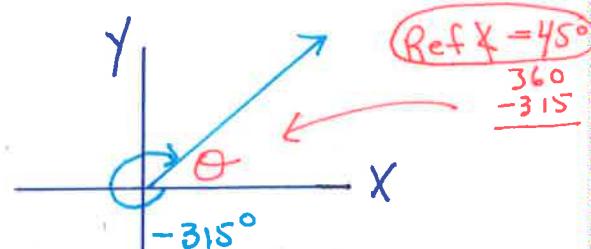
4)  $-130^\circ$



5)  $-250^\circ$

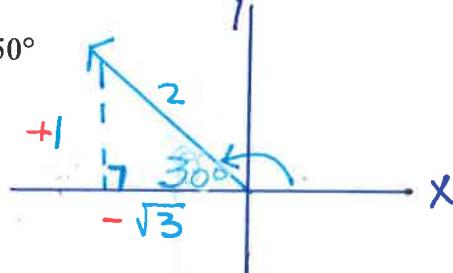


6)  $-315^\circ$



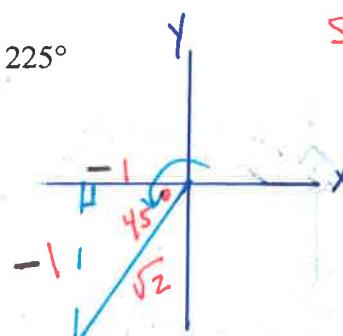
Find the exact value of each trigonometric function. Show work clearly. SKETCH THE GRAPH and include the reference angle.

7)  $\sin 150^\circ$



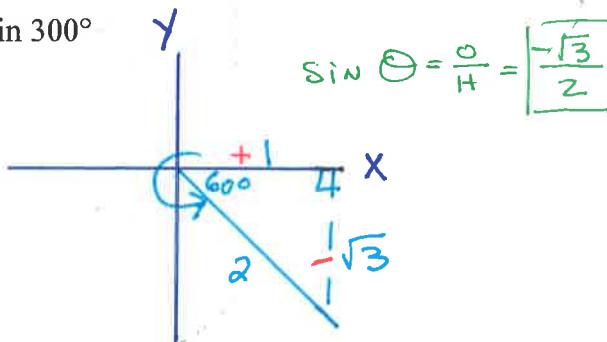
$$\sin \theta = \frac{o}{h} = \boxed{\frac{1}{2}}$$

8)  $\sin 225^\circ$

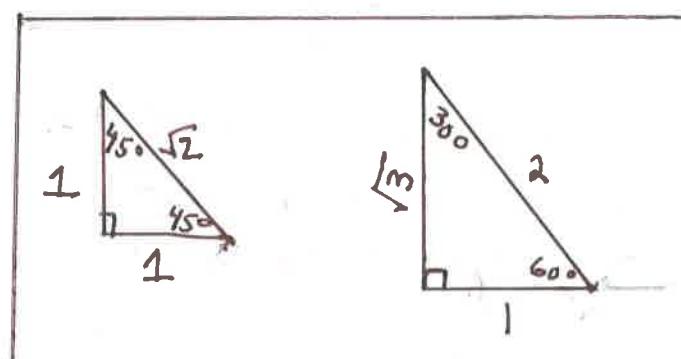


$$\sin \theta = \frac{o}{h} = \frac{-1}{\sqrt{2}} = \boxed{-\frac{\sqrt{2}}{2}}$$

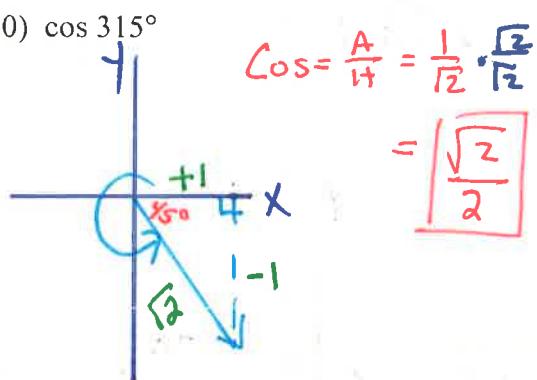
9)  $\sin 300^\circ$



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

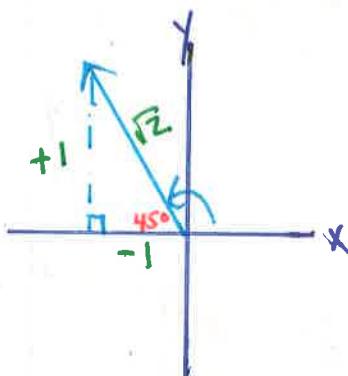


10)  $\cos 315^\circ$

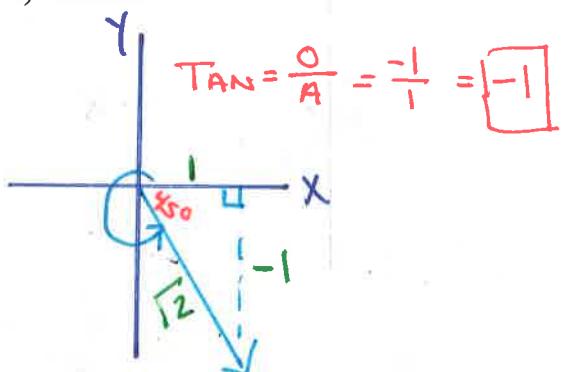


12)  $\cos 135^\circ$

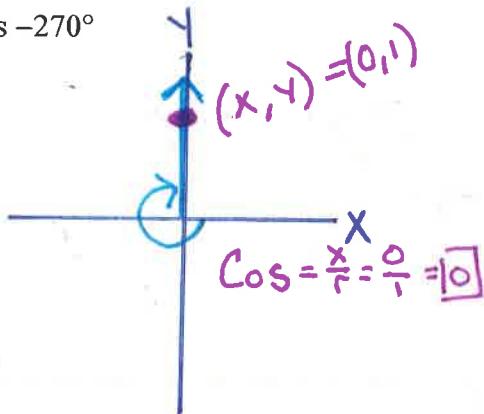
$$\cos = \frac{A}{H} = \frac{-1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \boxed{\frac{-\sqrt{2}}{2}}$$



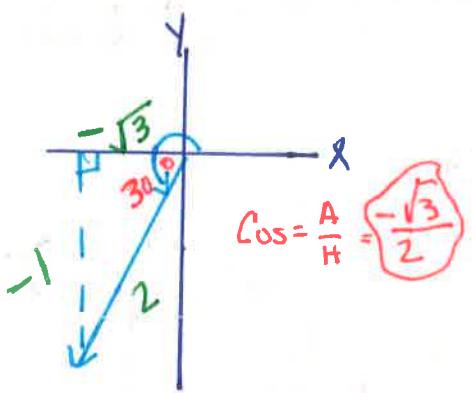
14)  $\tan 315^\circ$



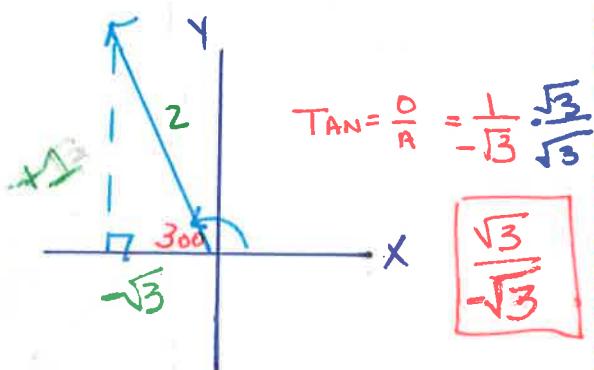
16)  $\cos -270^\circ$



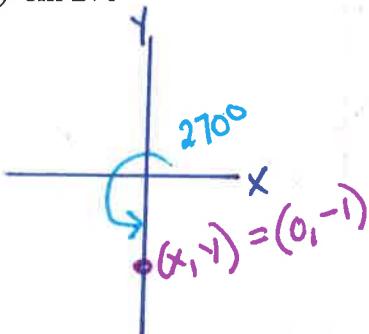
11)  $\cos 210^\circ$



13)  $\tan 150^\circ$

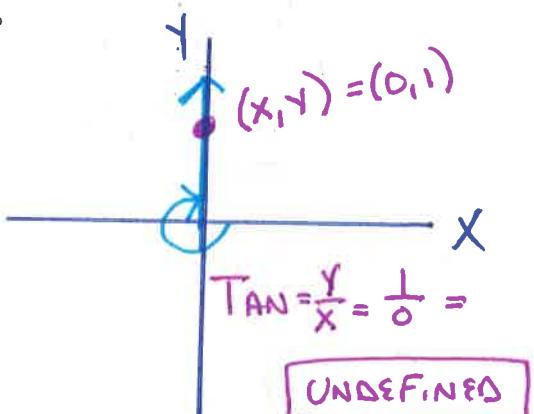


15)  $\sin 270^\circ$



$$\sin = \frac{Y}{R} = \frac{-1}{1} = \boxed{-1}$$

17)  $\tan -270^\circ$



Remember UNIT CIRCLE

$$\sin \theta = \frac{Y}{R}$$

$$\cos \theta = \frac{X}{R} \quad *R \text{ is always } +1$$

$$\tan \theta = \frac{Y}{X}$$