

HW #5 Unit circle & Reference angle

1) $(\frac{4}{9}, \frac{\sqrt{65}}{9})$ find $\sin t$ A) $\frac{\sqrt{65}}{9}$

2) $(-\frac{\sqrt{7}}{4}, \frac{3}{4})$ find $\cot t$ A) $-\frac{\sqrt{7}}{3}$

3) $(\frac{5}{7}, -\frac{2\sqrt{6}}{7})$ find $\csc t$. A) $-\frac{7\sqrt{6}}{12}$

4) find the reference angle of the given angle
 113°

$$\begin{array}{r} 180 \\ - 113 \\ \hline 67 \end{array}$$
D) 67°

5) $\sin 495^\circ$
 $\sin (135^\circ + 360^\circ)$
 $\sin (135^\circ)$
A) $\frac{\sqrt{2}}{2}$

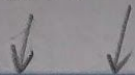
6) $\sin \frac{5\pi}{3}$
A) $-\frac{\sqrt{3}}{2}$

7) $\sin 405^\circ$
 $\sin (45^\circ + 360^\circ)$
 $\sin (45^\circ)$
B) $\frac{\sqrt{2}}{2}$

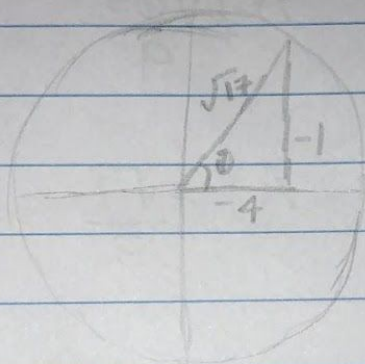
8.) what is the domain of the cosine function?
 $-1 \leq y \leq 1$

9) What is the range of the cosine function?
 $-1 \leq \cos x \leq 1$

$\cos \theta$ $\sin \theta$



10 $(-4, -1)$ find $\csc \theta$



$$\csc \theta = \frac{h}{b}$$

$$\csc \theta = \frac{\sqrt{17}}{-1}$$

$$a^2 + b^2 = c^2$$

$$(-4)^2 + (-1)^2 = c^2$$

$$16 + 1 = 17$$

$$c^2 = 17$$

$$c = \sqrt{17}$$