

Unit 1 - Intro to Trig - Review VK

1) $15^\circ \cdot \frac{\pi}{180^\circ} = \boxed{\frac{\pi}{12}}$

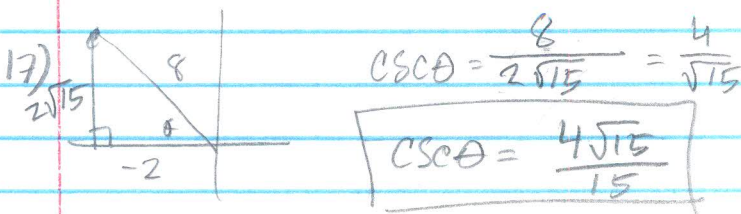
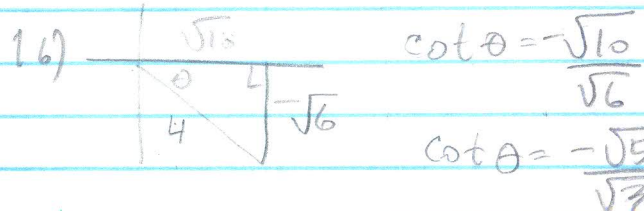
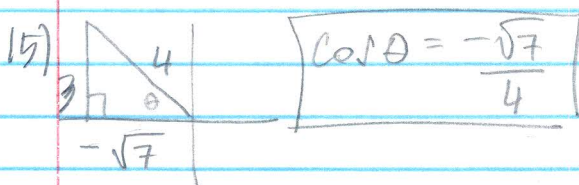
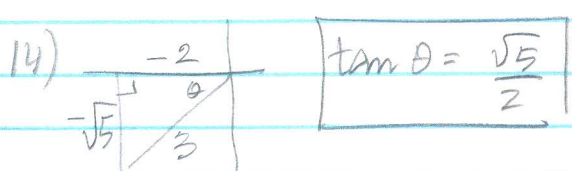
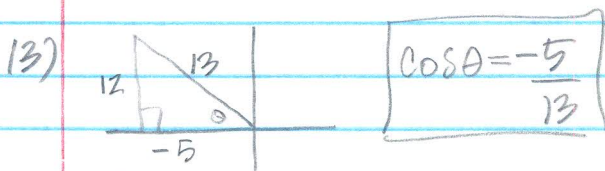
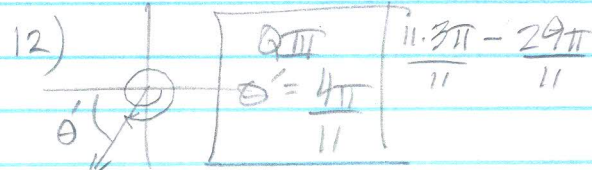
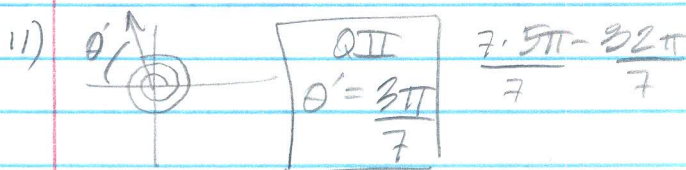
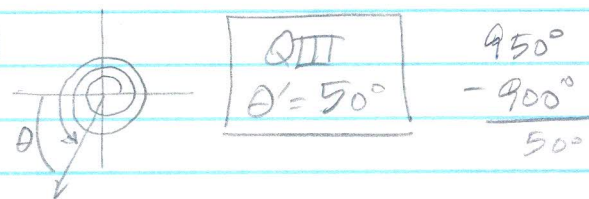
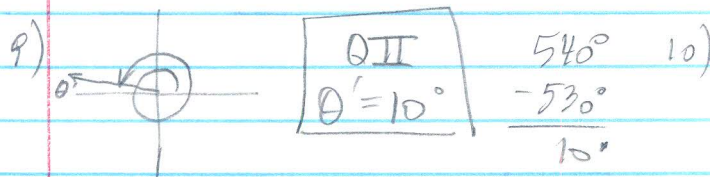
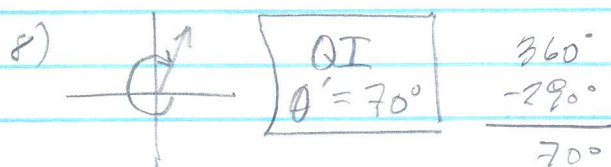
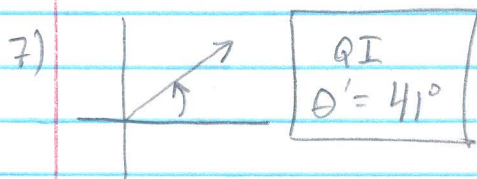
2) $-105^\circ \cdot \frac{\pi}{180^\circ} = \boxed{-\frac{7\pi}{12}}$

3) $540^\circ = \frac{\pi}{180^\circ} = \boxed{3\pi}$

4) $-\frac{7\pi}{9} \cdot \frac{180^\circ}{\pi} = \boxed{-140^\circ}$

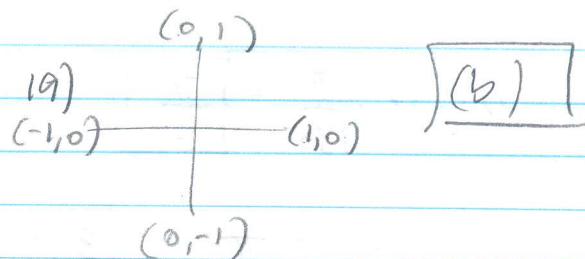
5) $\frac{11\pi}{5} \cdot \frac{180^\circ}{\pi} = \boxed{396^\circ}$

6) $8\pi \cdot \frac{180^\circ}{\pi} = \boxed{1440^\circ}$



$\cot \theta = -\frac{\sqrt{15}}{3}$

18) $\begin{matrix} \checkmark & \checkmark \\ S & A \\ T & C \checkmark \end{matrix}$ QII



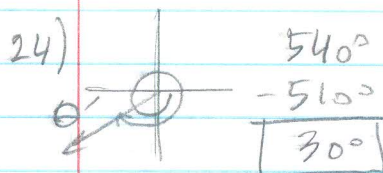
20) where $\cos \theta = \ominus$
 $\frac{\pi}{2}, \frac{3\pi}{2}$

21) $270^\circ + 80^\circ$
 350°

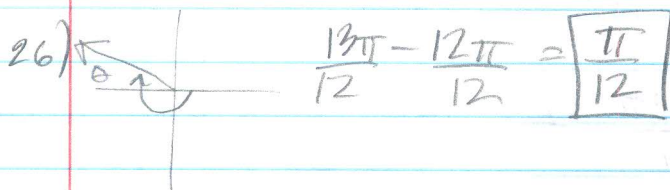
22) $5\pi - \frac{5\pi}{12} = \frac{60\pi - 5\pi}{12} = \frac{55\pi}{12}$

23) $2.5\pi - \frac{\pi}{3} =$

$\frac{5\pi}{2} - \frac{\pi}{3} = \frac{-13\pi}{6}$



25) $\frac{5\pi}{18}$



27) $\frac{17\pi}{36} + \frac{72\pi}{36} = \frac{89\pi}{36}$

$\frac{89\pi}{36} - \frac{72\pi}{36} = \frac{16\pi}{36}$ YES

28) $90^\circ + 360^\circ = 450^\circ$
No

29) $-435^\circ + 360^\circ = -75^\circ + 360^\circ$
 285°

30) $\frac{11\pi}{3} - \frac{6\pi}{3} = \frac{5\pi}{3}$

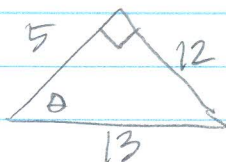
31) $-\frac{7\pi}{6} + \frac{12\pi}{6} = \frac{5\pi}{6}$

32) $640^\circ - 360^\circ = 280^\circ$
 280°

$-\frac{7\pi}{6} - \frac{12\pi}{6} = \frac{-19\pi}{6}$

$280^\circ - 360^\circ = -80^\circ$
 -80°

33)



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

$$\csc \theta = \frac{13}{12}$$

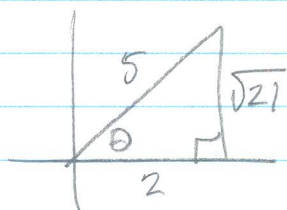
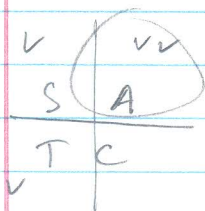
$$\cos \theta = \frac{5}{13}$$

$$\sec \theta = \frac{13}{5}$$

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

$$\cot \theta = \frac{5}{12}$$

34)



$$\sin \theta = \frac{\sqrt{21}}{5}$$

$$\csc \theta = \frac{5\sqrt{21}}{21}$$

$$\cos \theta = \frac{2}{5}$$

$$\sec \theta = \frac{5}{2}$$

$$\tan \theta = \frac{\sqrt{21}}{2}$$

$$\cot \theta = \frac{2\sqrt{21}}{21}$$

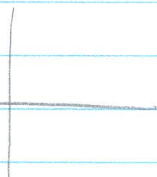
35)



$$\tan \frac{15\pi}{6} = \text{undefined}$$

36)

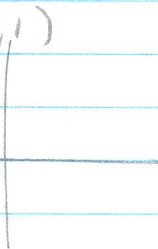
(-1, 0)



$$\sin 180^\circ = 0$$

37)

(0, 1)



$$\sin \frac{\pi}{2} = 1$$

$$\csc \frac{\pi}{2} = 1$$

