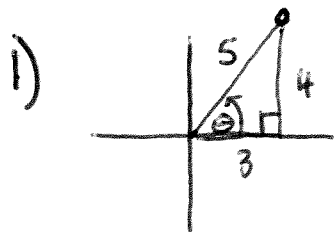
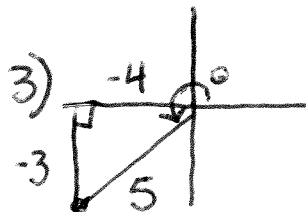


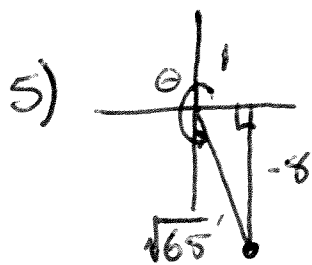
HW p. 4.3A



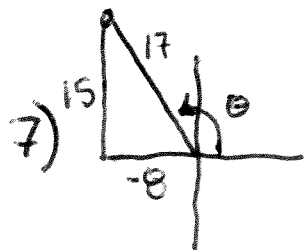
$$\begin{aligned} \sin \theta &= \frac{4}{5} & \csc \theta &= \frac{5}{4} \\ \cos \theta &= \frac{3}{5} & \sec \theta &= \frac{5}{3} \\ \tan \theta &= \frac{4}{3} & \cot \theta &= \frac{3}{4} \end{aligned}$$



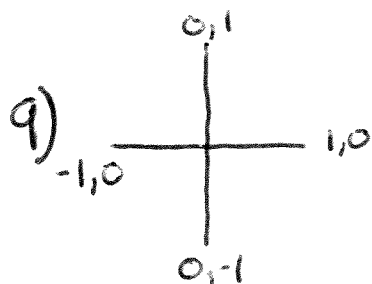
$$\begin{aligned} \sin \theta &= -\frac{3}{5} & \csc \theta &= -\frac{5}{3} \\ \cos \theta &= -\frac{4}{5} & \sec \theta &= -\frac{5}{4} \\ \tan \theta &= +\frac{3}{4} & \cot \theta &= \frac{4}{3} \end{aligned}$$



$$\begin{aligned} \sin \theta &= \frac{-8}{\sqrt{65}} = -\frac{8\sqrt{65}}{65} & \csc \theta &= \frac{\sqrt{65}}{-8} \\ \cos \theta &= \frac{1}{\sqrt{65}} = \frac{\sqrt{65}}{65} & \sec \theta &= \sqrt{65} \\ \tan \theta &= -8 & \cot \theta &= -\frac{1}{8} \end{aligned}$$



$$\begin{aligned} \sin \theta &= \frac{15}{17} & \csc \theta &= \frac{17}{15} \\ \cos \theta &= -\frac{8}{17} & \sec \theta &= -\frac{17}{8} \\ \tan \theta &= -\frac{15}{8} & \cot \theta &= -\frac{8}{15} \end{aligned}$$

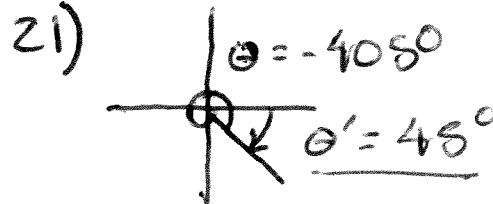
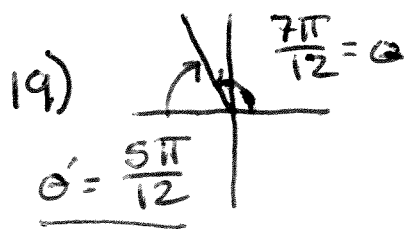
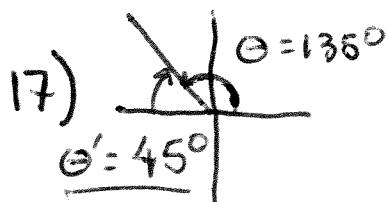


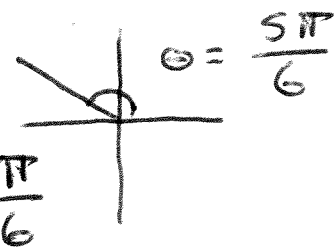
$$\sin \frac{\pi}{2} = 1$$

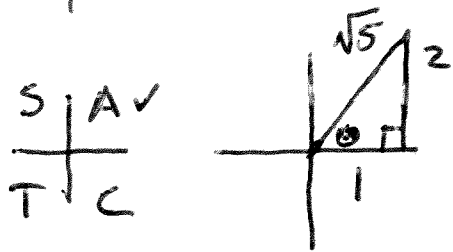
11) $\cot(-180^\circ) = \text{und.}$

13) $\cos(-270^\circ) = 0$

15) $\tan \pi = 0$



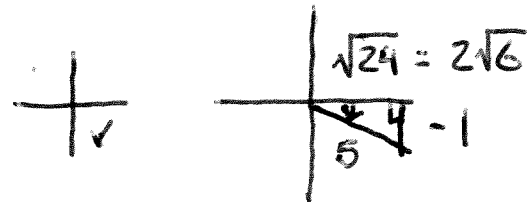
23)  $\theta = \frac{5\pi}{6}$
 $\theta' = \frac{\pi}{6}$

33)  $\frac{S}{T} \mid \frac{A}{C}$

$$\sin \theta = \frac{2}{\sqrt{5}} = \frac{2\sqrt{5}}{5} \quad \csc \theta = \frac{\sqrt{5}}{2}$$

$$\cos \theta = \frac{1}{\sqrt{5}} = \frac{\sqrt{5}}{5} \quad \sec \theta = \sqrt{5}$$

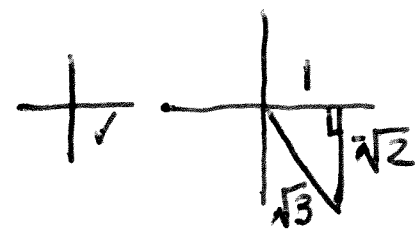
$$\tan \theta = 2 \quad \cot \theta = \frac{1}{2}$$

35)  $\frac{S}{T} \mid \frac{A}{C}$

$$\sin \theta = -\frac{1}{5} \quad \csc \theta = -5$$

$$\cos \theta = \frac{2\sqrt{6}}{5} \quad \sec \theta = \frac{5}{2\sqrt{6}} = \frac{5\sqrt{6}}{12}$$

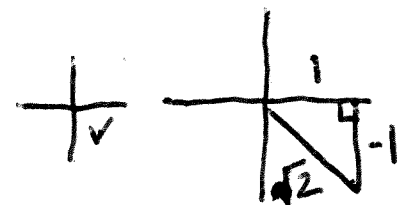
$$\tan \theta = -\frac{1}{2\sqrt{6}} = -\frac{\sqrt{6}}{12} \quad \cot \theta = -2\sqrt{6}$$

37)  $\frac{S}{T} \mid \frac{A}{C}$

$$\sin \theta = -\frac{\sqrt{2}}{2} = -\frac{\sqrt{6}}{3} \quad \csc \theta = -\frac{\sqrt{3}}{\sqrt{2}} = -\frac{\sqrt{6}}{2}$$

$$\cos \theta = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3} \quad \sec \theta = \sqrt{3}$$

$$\tan \theta = -\sqrt{2} \quad \cot \theta = -\frac{1}{\sqrt{2}} = -\frac{\sqrt{2}}{2}$$

39)  $\frac{S}{T} \mid \frac{A}{C}$

$$\sin \theta = -\frac{\sqrt{2}}{2} \quad \csc \theta = -\sqrt{2}$$

$$\cos \theta = \frac{\sqrt{2}}{2} \quad \sec \theta = \sqrt{2}$$

$$\tan \theta = -1 \quad \cot \theta = 1$$