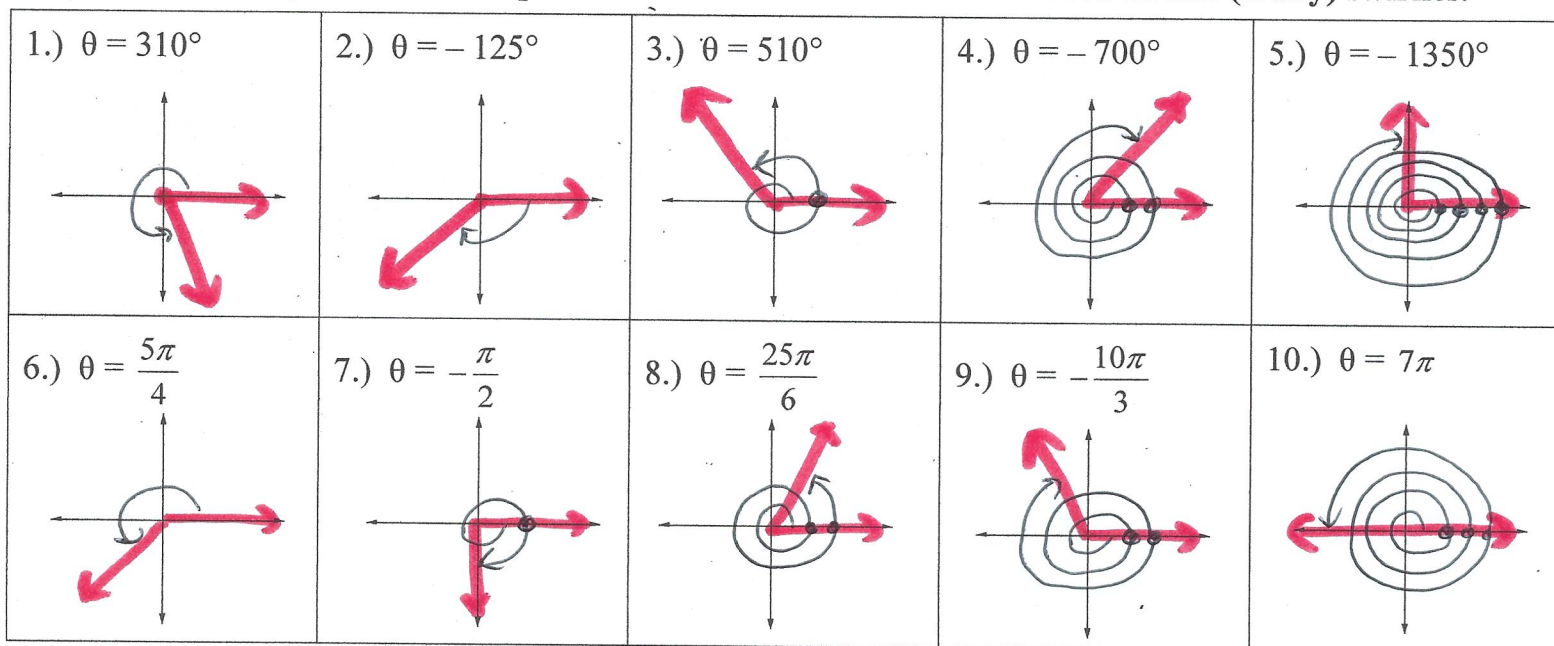


I. Draw each angle in standard position with a marker. Indicate direction and (if any) swirlies.



II. Complete the chart below about converting angle measures. Show work on line!

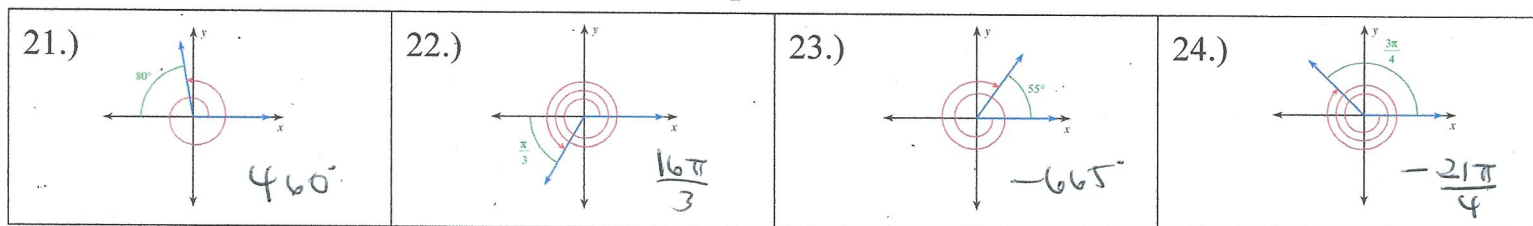
Degree Measure \rightarrow Radian Measure	Radian Measure \rightarrow Degree Measure
11.) $\theta = 155^\circ \rightarrow \frac{31\pi}{36}$	15.) $\theta = \frac{7\pi}{6} \rightarrow 210^\circ$
12.) $\theta = -330^\circ \rightarrow -\frac{11\pi}{6}$	16.) $\theta = \frac{\pi}{6} \rightarrow 30^\circ$
13.) $\theta = 720^\circ \rightarrow 4\pi$	17.) $\theta = \frac{26\pi}{15} \rightarrow 312^\circ$
14.) $\theta = 246^\circ \rightarrow \frac{41\pi}{30}$	18.) $\theta = -\frac{11\pi}{4} \rightarrow -495^\circ$

III. Find a positive and a negative coterminal angle for each given angle. Show work!

19.) $114^\circ \rightarrow$ positive coterminal angle = 474° negative coterminal angle = -246°

20.) $-\frac{4\pi}{9} \rightarrow$ positive coterminal angle = $\frac{14\pi}{9}$ negative coterminal angle = $-\frac{22\pi}{9}$

IV. Determine the measure of each angle. Keep units consistent.



V. Determine the reference angle for each given angle θ . Show your work!

25.) $\theta = 323^\circ \rightarrow$ reference angle: $\beta = 37^\circ$

26.) $\theta = 242^\circ \rightarrow$ reference angle: $\beta = 62^\circ$

27.) $\theta = 127^\circ \rightarrow$ reference angle: $\beta = 53^\circ$

28.) $\theta = -135^\circ \rightarrow$ reference angle: $\beta = 45^\circ$

29.) $\theta = 744^\circ \rightarrow$ reference angle: $\beta = 24^\circ$

30.) $\theta = -566^\circ \rightarrow$ reference angle: $\beta = 26^\circ$