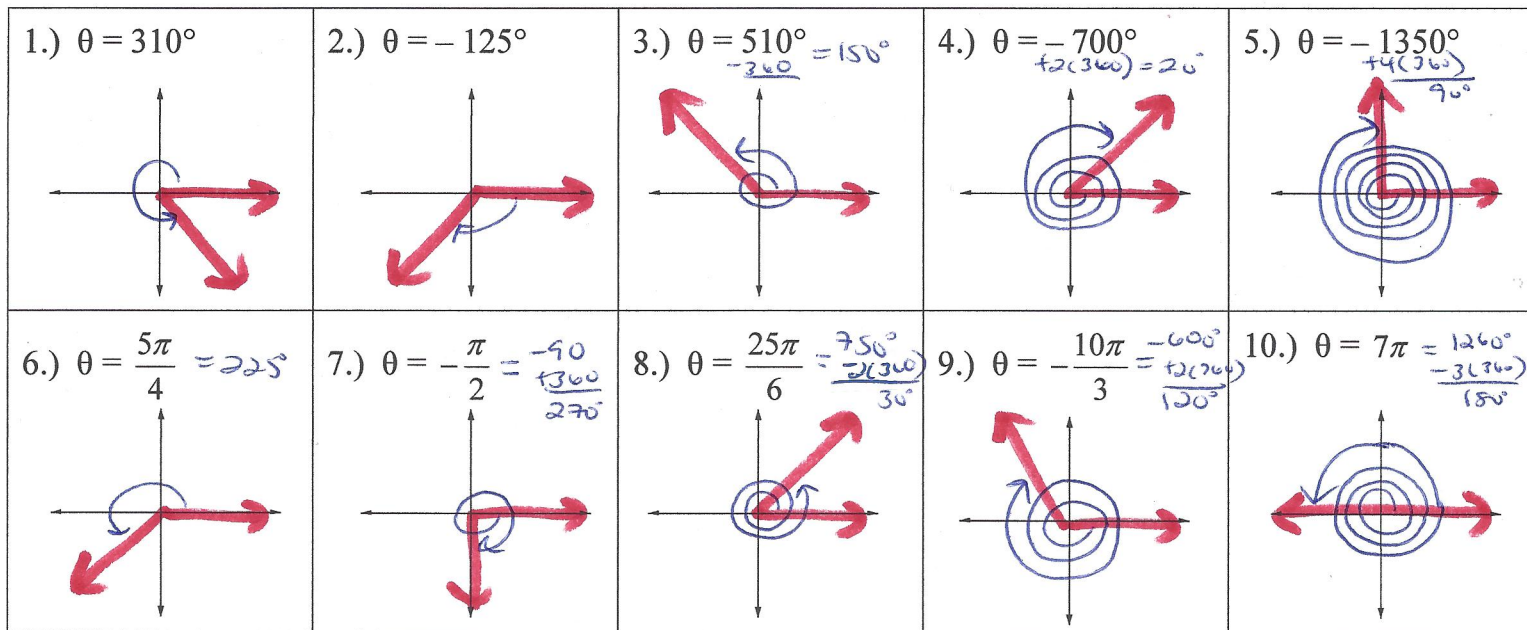


I. Draw each angle in standard position with a marker. Indicate direction and (if any) swirlies.



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

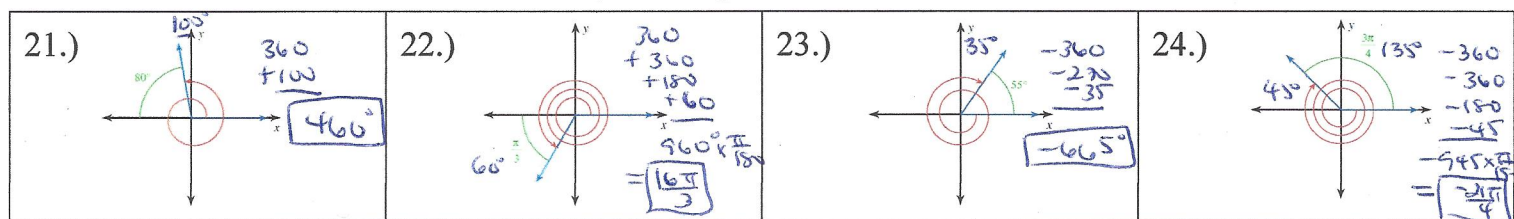
Degree Measure \rightarrow Radian Measure	Radian Measure \rightarrow Degree Measure
11.) $\theta = 155^\circ \rightarrow 155 \times \frac{\pi}{180} = \frac{155}{180} \pi = \boxed{\frac{31\pi}{36}}$	15.) $\theta = \frac{7\pi}{6} \rightarrow \frac{7\pi}{6} \times \frac{180}{\pi} = (\frac{7}{6}) \times 180 = \boxed{210^\circ}$
12.) $\theta = -330^\circ \rightarrow -330 \times \frac{\pi}{180} = -\frac{330}{180} \pi = \boxed{-\frac{11\pi}{6}}$	16.) $\theta = \frac{\pi}{6} \rightarrow \frac{\pi}{6} \times \frac{180}{\pi} = (\frac{1}{6}) \times 180 = \boxed{30^\circ}$
13.) $\theta = 720^\circ \rightarrow 720 \times \frac{\pi}{180} = \frac{720}{180} \pi = \boxed{4\pi}$	17.) $\theta = \frac{26\pi}{15} \rightarrow \frac{26\pi}{15} \times \frac{180}{\pi} = (\frac{26}{15}) \times 180 = \boxed{312^\circ}$
14.) $\theta = 246^\circ \rightarrow 246 \times \frac{\pi}{180} = \frac{246}{180} \pi = \boxed{\frac{41\pi}{30}}$	18.) $\theta = -\frac{11\pi}{4} \rightarrow -\frac{11\pi}{4} \times \frac{180}{\pi} = (-\frac{11}{4}) \times 180 = \boxed{-495^\circ}$

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

19.) $114^\circ \rightarrow$ positive coterminal angle = $\boxed{474^\circ}$ negative coterminal angle = $\boxed{-246^\circ}$
 $114 + 360$
 $114 - 360$

20.) $-\frac{4\pi}{9} \rightarrow$ positive coterminal angle = $\boxed{\frac{14\pi}{9}}$ negative coterminal angle = $\boxed{-\frac{22\pi}{9}}$
 $-\frac{4}{9}(\pi) + 2(\pi)$
 $-\frac{4}{9}(\pi) - 2(\pi)$

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: $B = 360 - 323$
 $\boxed{B = 37^\circ}$

26.) $\theta = 242^\circ \rightarrow$ reference angle: $B = 242 - 180$
 $\boxed{B = 62^\circ}$

27.) $\theta = 127^\circ \rightarrow$ reference angle: $B = 127 - 90$
 $\boxed{B = 37^\circ}$

28.) $\theta = -135^\circ \rightarrow$ reference angle: $B = 225 - 180$
 $\boxed{B = 45^\circ}$

29.) $\theta = 744^\circ \rightarrow$ reference angle: $B = 180 - 144$
 $\boxed{B = 36^\circ}$

30.) $\theta = -566^\circ \rightarrow$ reference angle: $B = 180 - 144$
 $\boxed{B = 36^\circ}$