Radians and Degrees
Circuit

Name _____

Begin with the problem in the top left. Answer the question. To advance in the circuit, find your answer and write "2" in the blank. Solve that problem, find your answer and write "3" in the blank and so on until you have solved every problem and returned to the beginning.

ANSWER: -20°20′24" #1 Determine the quadrant in which $\frac{\pi}{6}$ lies.	ANSWER: $\frac{\pi}{9}$ # _____ Rewrite $-220°$ in radian measure as a multiple of π.
ANSWER: 100° # _____ Find a coterminal angle between 0 and 2π for $\frac{29\pi}{13}$.	ANSWER: 295°48′ # _____ Convert -0.355 radians to degrees, minutes, seconds.
ANSWER: 72° # _____ Convert 2 radians to degrees. Round to 3 decimal places.	ANSWER: $\frac{3\pi}{13}$ # _____ Find a coterminal angle between 0 and 2π for $\frac{33\pi}{12}$.
ANSWER: 13° # _____ Find the complement of $\frac{\pi}{8}$.	ANSWER: 114.592° # _____ Convert 0.638 radians to degrees. Round to 3 decimal places.
ANSWER: $\frac{\pi}{20}$ # _____ Convert $-218°$ from degrees to radians. Round to 3 decimal places.	ANSWER: I # _____ Determine the quadrant in which $\frac{5\pi}{4}$ lies.

ANSWER: $\frac{\pi}{4}$ # _____ Convert 64°19′45″ from to a decimal to the nearest thousandth.	ANSWER: III # _____ Determine the quadrant in which 283° lies.
ANSWER: -3.805 # _____ Convert −48.4° from degrees to radians. Round to 3 decimal places.	ANSWER: $\frac{3\pi}{8}$ # _____ Find the supplement of $\frac{3\pi}{4}$.
ANSWER: 23° # _____ Find the supplement of 167°.	ANSWER: 280° # _____ Find a coterminal angle between 0° and 360° for −260°.
ANSWER: $\frac{3\pi}{4}$ # _____ Rewrite 20° in radian measure as a multiple of π.	ANSWER: 64.329° # _____ Convert 295.8° to degrees, minutes, seconds.
ANSWER: $-\frac{11\pi}{9}$ # _____ Convert 9° to radians, in terms of π.	ANSWER: IV # _____ Find a coterminal angle between 0° and 360° for 1000°.
ANSWER: -0.845 # _____ Convert $\frac{2\pi}{5}$ from radians to degrees.	ANSWER: 36.555 # _____ Find the complement of 67°.