

13.2 02N (1h)

Coterminal Angles angles that end in the same place (same terminal side)
Add / Subtract 360° to get

(ex1) pos & neg coterminal to 20°

$$\begin{array}{r} 20 + 360 \\ \hline 380^\circ \end{array}$$

$$\begin{array}{r} 20^\circ - 360^\circ \\ \hline -340^\circ \end{array}$$

(ex2) pos & neg to 410°

$$\begin{array}{r} 410 \\ - 360 \\ \hline 50^\circ \end{array}$$

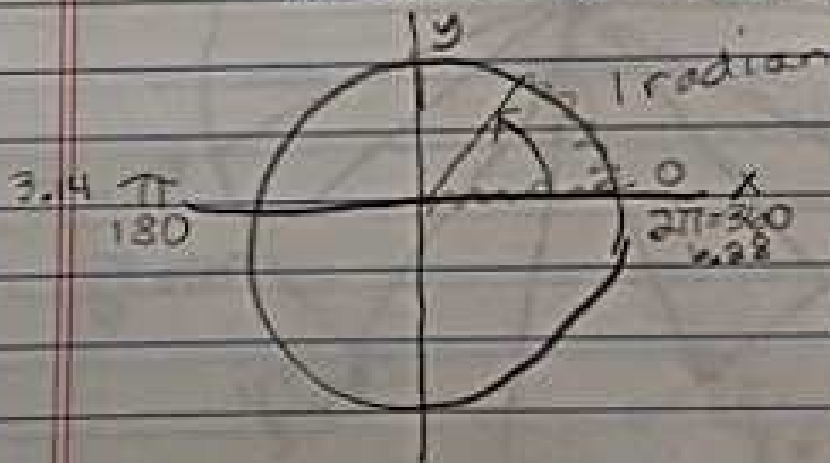
The \angle is positive

$$\begin{array}{r} 410 \\ - 360 \\ \hline 50 \\ - 360 \\ \hline -310^\circ \end{array}$$

The \angle is negative

Radian

is an angle created by stretching the length of the radius "r" around the circumference of a circle.



degree & radian

circumference is $2\pi r$

$$2\pi = 360^\circ$$

$$\pi = 180$$

13.2 D2N (17)

Convert between degrees & radians

Degree to radian $\cdot \frac{\pi}{180}$	radian to degree $\cdot \frac{180}{\pi}$
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(ex) Change 225° to radians

$$225 \cdot \frac{\pi}{180} = \frac{225\pi}{180} = \frac{45\pi}{36} = \frac{5\pi}{4}$$

reduce!

Change $\frac{3\pi}{10}$ to degrees

$$\frac{3\pi}{10} \cdot \frac{180}{\pi} = \frac{3\pi \cdot 180}{10\pi} = 54^\circ$$

reduce

