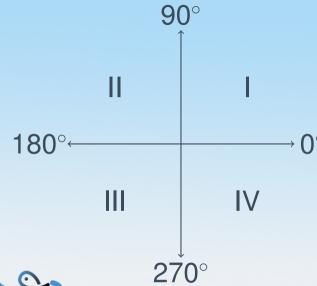
How to find reference angles







$$\begin{array}{c|c}
\hline
2\\
\hline
\\
\pi \leftarrow \\
\hline
\\
\parallel \\
\hline
\\
3\frac{\pi}{2}
\end{array}$$



The reference angle is the angle made between the terminal side of an angle and the *x*-axis.

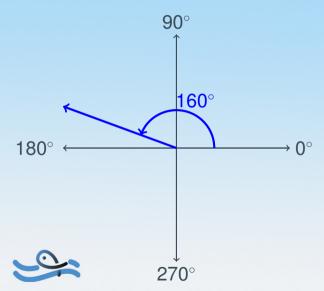


Summary: reference angle formulas

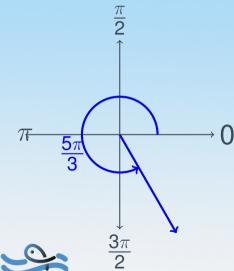
| Quadrant | Radians | Degrees |
|----------|---------|---------|
| | | |
| П | | |
| III | | |
| IV | | |



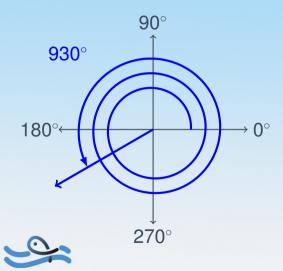
Find the reference angle for 160°



Find the reference angle for $\frac{5\pi}{3}$



Find the reference angle for 930°



Find the reference angle for 930° 210°

