

Section 2.2

Trigonometric Functions of Non-Acute Angles

NON-ACUTE ANGLES

Problem 1. To calculate the following trigonometric function values, perform the following steps:

1. Calculate the “standard” coterminal angle $0^\circ \leq \theta < 360^\circ$.
2. Determine which quadrant θ lives.
3. Calculate the reference angle of θ for given quadrant.
4. Finally calculate the exact value for the trigonometric function, correcting the sign determined by the quadrant for θ .

	Coterminal	Quadrant	Ref. Angle	Value
$\sin (390^\circ)$				
$\cos (- 225^\circ)$				
$\tan (1305^\circ)$				
$\sin (- 510^\circ)$				
$\sec (495^\circ)$				
$\cot (2280^\circ)$				