## Trig Values by Quadrant

**The cosine and sine are defined by the ordered pair (x, y) where x coordinate represents the cosine, the y coordinate represents the sine. As an ordered pair, that's (cosine, sine)**

**Procedure**

1. **Determine the quadrant of the angle**
2. **Find the reference angle**
3. **Determine the sign of that angle**

**Example** **Find the sin 120° and cos 120°**

**120°is in second quadrant,**
**The cosine is negative, the sine is positive**
**Reference angle is 60°, cos 60° = $\frac{1}{2}$, sin 60° = $\frac{\sqrt{3}}{2}$**
**$\therefore \rightarrow$ cos 120° = $-\frac{1}{2}$ and the sin 120° = $\frac{\sqrt{3}}{2}$**

1. Find the value of the sin, cos and tan of an angle with measure 120°
2. Find the value of the sin, cos and tan of an angle with measure 225°
3. Find the value of the sin, cos, and tan of an angle with measure 300°
4. Find the value of the sin, cos and tan of an angle with measure 3π/4
5. Find the value of the sin, cos and tan of an angle with measure 11π/6
6. Find the value of the sin, cos and tan of an angle with measure 4π/3
7. Find the value of the csc, sec and cot of an angle with measure 3π/4
8. Find the value of the csc, sec and cot of an angle with measure 7π/6
9. Find the value of the csc, sec and cot of an angle with measure 7π/4
10. Find the value of the sin, cos, sec, tan and cot of an angle with measure 90°