$$\cos(\theta) = \frac{\mathbf{v1} \cdot \mathbf{v2}}{|\mathbf{v1}||\mathbf{v2}|}$$

$$\sin(\theta)\mathbf{n} = \frac{\mathbf{v1} \times \mathbf{v2}}{|\mathbf{v1}||\mathbf{v2}|}$$
(2)

$$\sin(\theta)\mathbf{n} = \frac{\mathbf{v}\mathbf{1} \times \mathbf{v}\mathbf{2}}{|\mathbf{v}\mathbf{1}||\mathbf{v}\mathbf{2}|} \tag{2}$$

$$atan2(sin(\theta), cos(\theta)) = \theta \quad for \quad \theta \in (-\pi, \pi]$$
 (3)