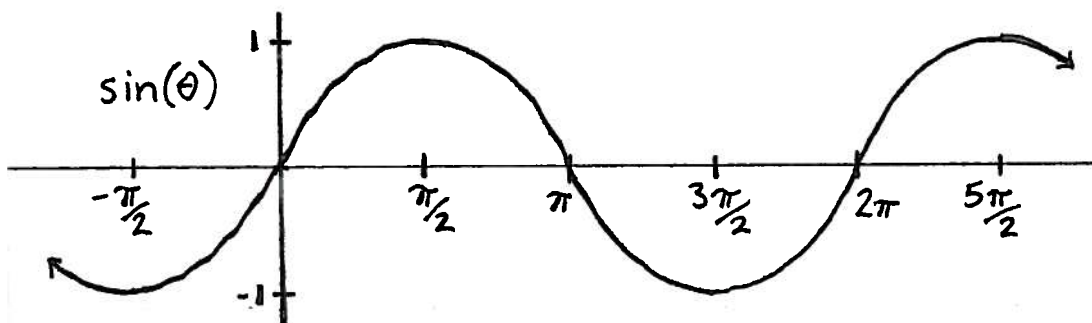
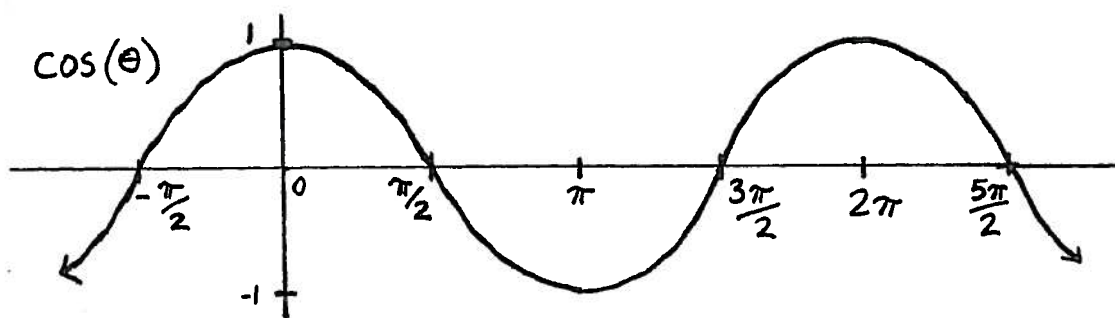


$$\text{wind}(\theta) = (\cos(\theta), \sin(\theta))$$

$\theta$	$\text{wind}(\theta)$	$\cos(\theta)$	$\sin(\theta)$
0	(1,0)	1	0
$\frac{\pi}{6}$	$(\frac{\sqrt{3}}{2}, \frac{1}{2})$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$
$\frac{\pi}{4}$	$(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}})$	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$
$\frac{\pi}{3}$	$(\frac{1}{2}, \frac{\sqrt{3}}{2})$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$
$\frac{\pi}{2}$	(0,1)	0	1



### Identities

- |   |  |  |
|---|--|--|
| ① $\cos^2(\theta) + \sin^2(\theta) = 1$         | ④ $\cos(\theta + \pi) = -\cos(\theta)$ | ⑦ $\sin(-\theta) = -\sin(\theta)$      |
| ② $\sin(\theta + \frac{\pi}{2}) = \cos(\theta)$ | ⑤ $\sin(\theta + \pi) = -\sin(\theta)$ | ⑧ $\cos(\theta + 2\pi) = \cos(\theta)$ |
| ③ $\cos(\theta - \frac{\pi}{2}) = \sin(\theta)$ | ⑥ $\cos(-\theta) = \cos(\theta)$       | ⑨ $\sin(\theta + 2\pi) = \sin(\theta)$ |