VD unit 4 topic 2 part 1

1. Find the coordinates on the unit circle for given angles, θ_1 and θ_2

θ_1	(x_1, y_1)	θ_2	(x_2, y_2)
$\frac{\pi}{2}$	$(0,1)$	$\frac{13\pi}{6}$	$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
$\frac{5\pi}{6}$	$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$	$\frac{10\pi}{3}$	$\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$
$\frac{5\pi}{3}$	$\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$	$\frac{15\pi}{4}$	$\left(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$
$\frac{7\pi}{4}$	$\left(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$	$-\frac{7\pi}{6}$	$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
$\frac{2\pi}{3}$	$\left(-\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$	$-\frac{5\pi}{4}$	$\left(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$
$\frac{3\pi}{2}$	$(0,-1)$	$-\frac{19\pi}{6}$	$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
$-\frac{3\pi}{4}$	$\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$	$-\frac{11\pi}{6}$	$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
$\frac{5\pi}{2}$	$(0,1)$	$-\frac{19\pi}{4}$	$\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$

2. Find the radian of angle θ ($0 \le \theta < 2\pi$) for given coordinates on the unit circle.

(x, y)	θ
$\left(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$	$\frac{3\pi}{4}$
$\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$	$\frac{5\pi}{3}$
$\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$	$\frac{3\pi}{4}$
$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$	$\frac{\pi}{6}$
$(-1,0)$	π
$\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$	$\frac{5\pi}{3}$

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$\left(\frac{\sqrt{2}}{2},\frac{\sqrt{2}}{2}\right)$	$\frac{\pi}{4}$
$(0,-1)$	$\frac{3\pi}{2}$