SAT PREP

Unit circle and trigonometric ratio

$\left(\frac{-\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$ $\left(\frac{-\sqrt{3}}{2}, \frac{1}{2}\right)$ $\left(\frac{-\sqrt{3}}{2}, \frac{1}{2}\right)$ $\left(\frac{-\sqrt{3}}{2}, \frac{1}{2}\right)$ $\left(\frac{-\sqrt{3}}{2}, \frac{1}{2}\right)$	$(0,1) \qquad \left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right) (\cos \theta, \sin \theta)$
$(-1,0)$ $180^{\circ} = \pi$	$0^{\circ} = 0\pi = 2\pi$ (1, 0)
$ \left(\frac{-\sqrt{3}}{2}, \frac{-1}{2}\right) = 210^{3} \cdot 10^{11} \cdot 10^{12} \cdot 10^{1$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

	sin θ	cos θ	tan 0	cot θ	sec θ	csc θ
$0^{\circ} = 0\pi = 2\pi$	0	1	0		1	
$30^{\circ} = \pi/6$	1/2	$\sqrt{3}/2$	$\sqrt{3}/3$	$\sqrt{3}$	2√3/3	2
$45^{\circ} = \pi/4$	$\sqrt{2}/2$	$\sqrt{2}/2$	1	1	$\sqrt{2}$	$\sqrt{2}$
$60^{\circ} = \pi/3$	$\sqrt{3}/2$	1/2	$\sqrt{3}$	$\sqrt{3}/3$	2	2√3/3
$90^{\circ} = \pi/2$	1	0		0		1
$120^{\circ} = 2\pi/3$	$\sqrt{3}/2$	-1/2	-√3	-√3/3	-2	2√3/3
$135^{\circ} = 3\pi/4$	$\sqrt{2}/2$	$-\sqrt{2}/2$	-1	-1	-√2	$\sqrt{2}$
$150^{\circ} = 5\pi/6$	1/2	$-\sqrt{3}/2$	$-\sqrt{3}/3$	-√3	$-2\sqrt{3}/3$	2
$180^{\circ} = \pi$	0	-1	0		-1	
$210^{\circ} = 7\pi/6$	-1/2	$-\sqrt{3}/2$	$\sqrt{3}/3$	√3	-2√3/3	-2
$225^{\circ} = 5\pi/4$	$-\sqrt{2}/2$	$-\sqrt{2}/2$	1	1	-√2	$-\sqrt{2}$
$240^{\circ} = 4\pi/3$	$-\sqrt{3}/2$	-1/2	√3	$\sqrt{3}/3$	-2	$-2\sqrt{3}/3$
$270^{\circ} = 3\pi/2$	-1	0		0		-1
$300^{\circ} = 5\pi/3$	$-\sqrt{3}/2$	1/2	-√3	-√3/3	2	$-2\sqrt{3}/3$
$315^{\circ} = 7\pi/4$	$-\sqrt{2}/2$	$\sqrt{2}/2$	-1	-1	$\sqrt{2}$	$-\sqrt{2}$
$330^{\circ} = 11\pi/6$	-1/2	$\sqrt{3}/2$	$-\sqrt{3}/3$	-√3	2√3/3	-2

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