

Name Key Date _____ Hour _____

Section 13.3 - day 3

Alg 2 Trig G

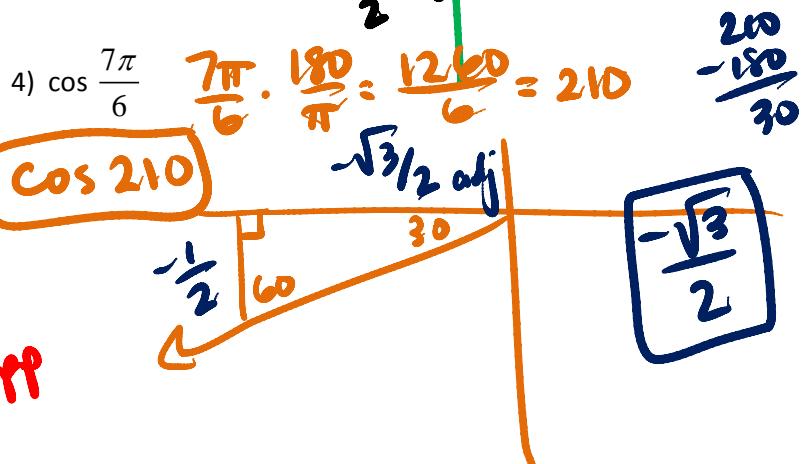
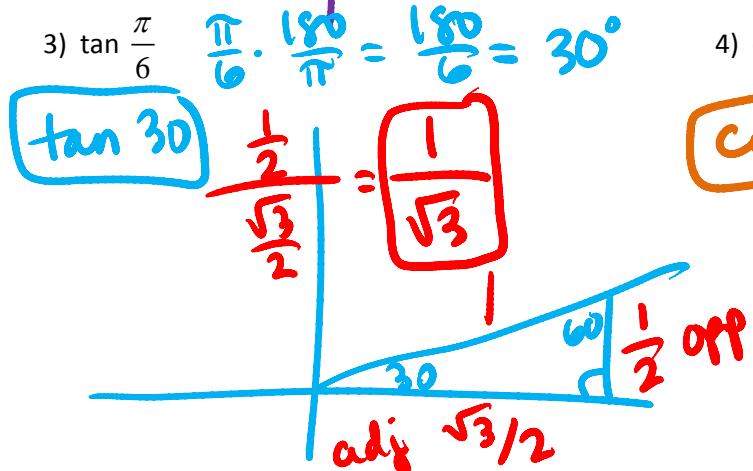
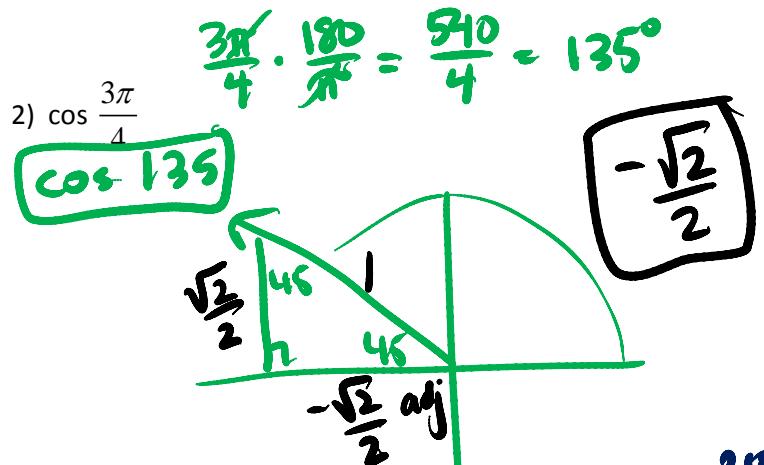
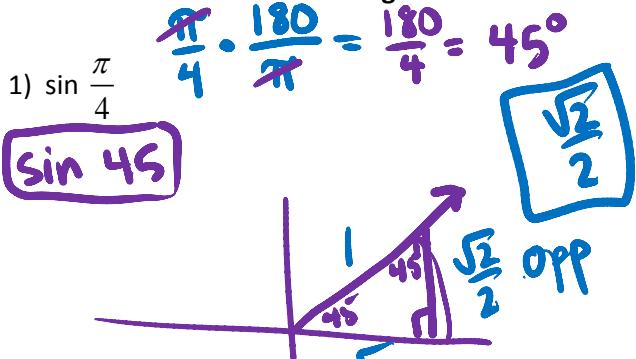


* do these on the calculator

QUADRANTAL ANGLES – when the terminal side of an angle lies on one of the axes

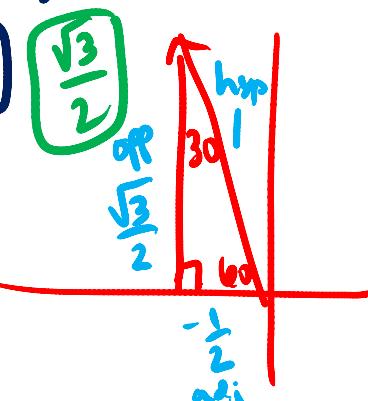
	$\sin 90^\circ = 1$	$\csc 90^\circ = 1$		$\sin 180^\circ = 0$	$\csc 180^\circ = \cancel{0}$
	$\cos 90^\circ = 0$	$\sec 90^\circ = \cancel{0}$		$\cos 180^\circ = -1$	$\sec 180^\circ = -1$
	$\tan 90^\circ = \cancel{0}$ $\frac{1}{0}$	$\cot 90^\circ = 0$ $0/1$		$\tan 180^\circ = 0$	$\cot 180^\circ = \cancel{0}$
	$\sin 270^\circ = -1$	$\csc 270^\circ = -1$		$\sin 0^\circ = 0$	$\csc 0^\circ = \cancel{0}$
	$\cos 270^\circ = 0$	$\sec 270^\circ = \cancel{0}$		$\cos 0^\circ = 1$	$\sec 0^\circ = 1$
	$\tan 270^\circ = \cancel{0}$	$\cot 270^\circ = 0$		$\tan 0^\circ = 0$	$\cot 0^\circ = \cancel{0}$

Find the exact value of each trig function:



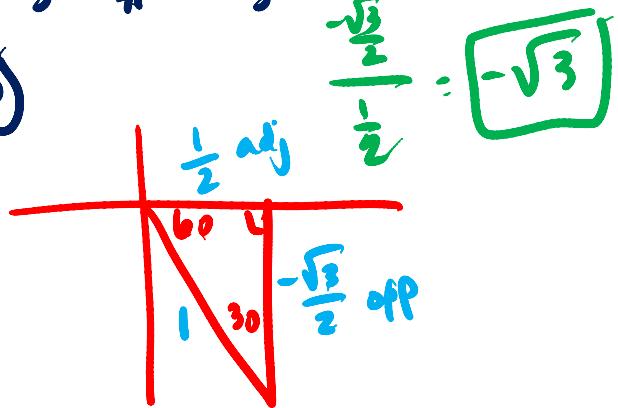
$$5) \sin \frac{2\pi}{3} \quad \frac{2\pi}{3} \cdot \frac{180}{\pi} = \frac{360}{3} = 120$$

sin 120



$$6) \tan \frac{5\pi}{3} \quad \frac{5\pi}{3} \cdot \frac{180}{\pi} = \frac{900}{3} = 300$$

tan 300

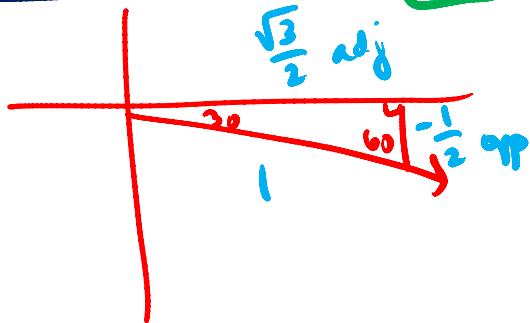


$$7) \csc \frac{11\pi}{6} \quad \frac{11\pi}{6} \cdot \frac{180}{\pi} = \frac{1980}{6} = 330$$

csc 330

$$\sin = -\frac{1}{2}$$

-2



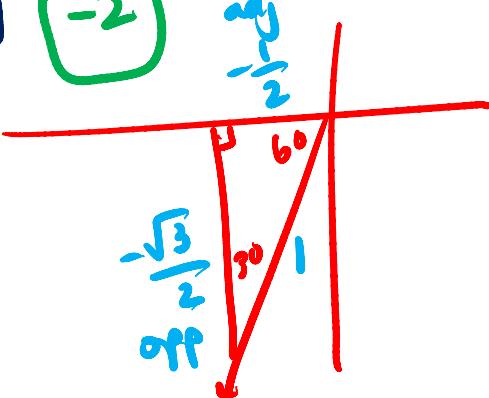
$$8) \sec \frac{4\pi}{3} \quad \frac{4\pi}{3} \cdot \frac{180}{\pi} = \frac{720}{3} = 240$$

sec 240

$$\cos = -\frac{1}{2}$$

-2

adj



$$9) \cot \frac{5\pi}{4} \quad \frac{5\pi}{4} \cdot \frac{180}{\pi} = \frac{900}{4} = 225$$

cot 225

1

$$\tan = \frac{-\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = 1$$

