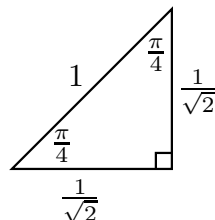
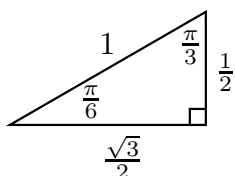


1 (10 pts). Find the values of $\sin t$ and $\cos t$ at the given values of t . Supporting work not required on this problem. You are not required to rationalize denominators.

t	$\frac{\pi}{3}$	-14π	$-\frac{5\pi}{6}$	$-\frac{5\pi}{2}$	$\frac{2\pi}{3}$	$\frac{15\pi}{4}$
$\cos t$						
$\sin t$						

Solution:

1.(Source: 4.2.more.1) Determine the reference number of each angle and the quadrant containing its terminal point. Draw a vertical line from the terminal point to the x -axis and a line from the terminal point to the origin. Look for these two triangles.



t	$\frac{\pi}{3}$	-14π	$-\frac{5\pi}{6}$	$-\frac{5\pi}{2}$	$\frac{2\pi}{3}$	$\frac{15\pi}{4}$
quadrant	I	East Pole	III	South Pole	II	IV
ref. number	$\frac{\pi}{3}$	0	$\frac{\pi}{6}$	$\frac{\pi}{2}$	$\frac{\pi}{3}$	$\frac{\pi}{4}$
$\cos t$	$1/2$	1	$-\sqrt{3}/2$	0	$-1/2$	$1/\sqrt{2}$
$\sin t$	$\sqrt{3}/2$	0	$-1/2$	-1	$\sqrt{3}/2$	$-1/\sqrt{2}$