

Name:

Period:

Date:

Color-by-numbers Practice: Trig Ratios on the Unit Circle

Evaluate each trig ratio. Simplify answers completely and show work. Use the answers to color in the picture.

1] $\sin -210^\circ$	4] $\csc \frac{-2\pi}{3}$	7] $\cot \frac{-\pi}{6}$	10] $\cos 450^\circ$
2] $\sec \frac{7\pi}{4}$	5] $\tan \frac{7\pi}{2}$	8] $\sin -600^\circ$	$\frac{\sqrt{3}}{3} = \text{yellow}$ $-\frac{\sqrt{2}}{2} = \text{red}$ $-2 = \text{purple}$ $-1 = \text{light green}$ $-\sqrt{3} = \text{light green}$ $\frac{\sqrt{3}}{2} = \text{dark green}$ $-\frac{\sqrt{3}}{2} = \text{red}$ $0 = \text{dark blue}$ $1 = \text{black}$ $\frac{2\sqrt{3}}{3} = \text{pink}$ $\sqrt{2} = \text{orange}$ $-\frac{2\sqrt{3}}{3} = \text{orange}$ $-\frac{1}{2} = \text{brown}$ $\frac{1}{2} = \text{yellow}$ $\text{undefined} = \text{dark blue}$
3] $\tan 390^\circ$	6] $\sec \frac{-10\pi}{3}$	9] $\cos \frac{-5\pi}{6}$	

