1. Write the radians of each point on the unit circle and their degrees: (i.e. $\pi / 2, \pi, 30^{\circ}$ etc...)

2. Write the coordinates for all 16 points.

3. Show 8 examples of how the $30-60-90$ triangle fits within the unit circle:


Find the exact value of each trigonometric function.

1) $\csc \frac{7 \pi}{3}=\frac{2}{\sqrt{3}}=\frac{2 \sqrt{3}}{3}$
2) $\cos \frac{7 \pi}{6}=-\frac{\sqrt{3}}{2}$
3) $\sin \frac{11 \pi}{6}=-\frac{1}{2}$
4) $\csc 0=$ undefined
5) $\cos -\frac{5 \pi}{6}=-\frac{\sqrt{3}}{2}$
6) $\sin \frac{19 \pi}{6}=-\frac{1}{2}$
7) $\tan \frac{4 \pi}{3}=\sqrt{3}$
8) $\csc \frac{2 \pi}{3}=\frac{2}{\sqrt{3}}=\frac{2 \sqrt{3}}{3}$
9) $\cos -\frac{\pi}{2}=0$
10) $\tan -\frac{\pi}{6}=-\frac{\sqrt{3}}{3}$
11) $\cot \frac{3 \pi}{2}=0$
12) $\cot \frac{3 \pi}{4}=-1$
13) $\tan \frac{5 \pi}{4}=1$
14) $\cos -\frac{\pi}{6}=\frac{\sqrt{3}}{2}$
15) $\tan \frac{7 \pi}{4}=-1$
16) $\sin \frac{2 \pi}{3}=\frac{\sqrt{3}}{2}$
17) $\sec -\frac{3 \pi}{4}=\frac{-2}{\sqrt{2}}=-\sqrt{2}$
18) $\sin \frac{\pi}{2}=1$
19) $\sin \frac{11 \pi}{4}=\frac{\sqrt{2}}{2}$
20) $\sec \frac{3 \pi}{4}=-\sqrt{2}$
