## Unit Circle Homework

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 expression. Use the Unit Circle.

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