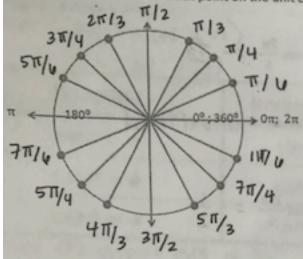
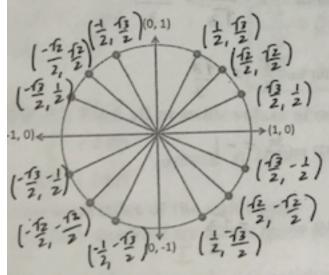
## Unit 6, HW #4

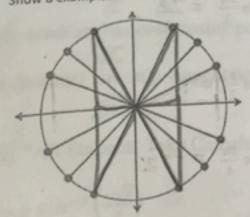
1. Write the radians of each point on the unit circle and their degrees: (i.e.  $\pi/2$ ,  $\pi$ , 30° etc...)



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) 
$$\csc \frac{7\pi}{3} = \frac{2}{73} = \frac{2\sqrt{3}}{3}$$

3) 
$$\sin \frac{11\pi}{6} = -\frac{1}{2}$$

5) 
$$\cos -\frac{5\pi}{6} = -\frac{73}{2}$$

7) 
$$\tan \frac{4\pi}{3} = \sqrt{3}$$

9) 
$$\cos -\frac{\pi}{2} = 0$$

11) 
$$\cot \frac{3\pi}{2} = 0$$

13) 
$$\tan \frac{5\pi}{4} = 1$$

15) 
$$\tan \frac{7\pi}{4} = -1$$

17) 
$$\sec{-\frac{3\pi}{4}} = \frac{-2}{72} = -52$$

19) 
$$\sin \frac{11\pi}{4} = \frac{\sqrt{2}}{2}$$

2) 
$$\cos \frac{7\pi}{6} = -\frac{13}{2}$$

6) 
$$\sin \frac{19\pi}{6} = -\frac{1}{2}$$

8) 
$$\csc \frac{2\pi}{3} = \frac{2}{13} = \frac{213}{3}$$

10) 
$$\tan{-\frac{\pi}{6}} = -\frac{13}{3}$$

12) 
$$\cot \frac{3\pi}{4} = -1$$

14) 
$$\cos -\frac{\pi}{6} = \frac{13}{2}$$

16) 
$$\sin \frac{2\pi}{3} = \frac{\sqrt{3}}{2}$$

$$18) \sin \frac{\pi}{2} = 1$$

$$20) \sec \frac{3\pi}{4} = -\sqrt{2}$$