Unit Circle

1.) $\cos \pi/4 = \frac{\sqrt{2}}{2}$

2) $\sin 4\pi/3 = -\sqrt{3}/2$

3.) $\tan \frac{11\pi}{6} = \frac{-1/2}{\sqrt{3}/2} = \frac{-1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$

4) $\sin 3\pi/2 = -1$

5) $\tan \pi/2 = \frac{1}{0} = DNE$

6) $\cos 5\pi/6 = -\sqrt{3}/2$

7) $\cos \pi = -1$

8) $\tan 3\pi/2 = \frac{-1}{0} = DNE$

9) $\cos 7\pi/6 = -\sqrt{3}/2$

10) $\tan -\pi/6 = \frac{-1/2}{\sqrt{3}/2} = -1/\sqrt{3} = -\frac{\sqrt{3}}{3}$

11.) $\tan 2\pi/3 = \frac{\sqrt{3}/2}{-1/2} = -\sqrt{3}$

12) $\cos -3\pi/4 = -\sqrt{2}/2$

13.) $\csc \pi/3 = 2/\sqrt{3} = 2\sqrt{3}/3$

14) $\sec 5\pi/4 = -2/\sqrt{2} = -\sqrt{2}$

15) $\cot 5\pi/6 = \frac{-\sqrt{3}/2}{1/2} = -\sqrt{3}$

16) $\csc 4\pi/3 = \frac{2}{-\sqrt{3}} = \frac{-2\sqrt{3}}{3}$

17) $\cot 3\pi/4 = -1$

18) $\csc 7\pi/6 = -2$

19) $\cot 0 = 1/0 = DNE$

20) $\csc \pi = DNE$