1. $\sin\left(0+(\pi k)\right)=0=\cos\left(\frac{\pi}{2}+(\pi k)\right), \cos(0)=1=\sin\left(\frac{\pi}{2}\right)$
2. $\sin(-\alpha)=-\sin(\alpha)\,, \cos(-\alpha)=\cos(\alpha)$
3. $$\cos(\varphi)=\begin{cases}-\sin(\alpha) & \varphi=\left(\alpha+\frac{1}{2}\pi\right)+2\pi k\\ \sin(\alpha) & \varphi=\left(\frac{1}{2}\pi-\alpha\right)+2\pi k\\ -\cos(\alpha) & \varphi=(\alpha+\pi)+2\pi k\\ -\cos(\alpha) & \varphi=(\pi-\alpha)+2\pi k\end{cases}$$
4. $$\sin(\varphi)=\begin{cases}\cos(\alpha) & \varphi=\left(\alpha+\frac{1}{2}\pi\right)+2\pi k\\ \cos(\alpha) & \varphi=\left(\frac{1}{2}\pi-\alpha\right)+2\pi k\\ -\sin(\alpha) & \varphi=(\alpha+\pi)+2\pi k\\ \sin(\alpha) & \varphi=(\pi-\alpha)+2\pi k\end{cases}$$
5. $\tan:\mathbb{R}\backslash\left\{\frac{1}{2}\pi+\pi k\mid k\in\mathbb{Z}\right\}\to\mathbb{R}$ מוגדרת $\forall\theta\in\mathbb{R}\ \tan(\theta)=\frac{\sin(\theta)}{\cos(\theta)}$
6. $\cos(\alpha\pm\beta)=\cos(\alpha)\cos(\beta)\mp\sin(\alpha)\sin(\beta)$
7. $\sin(\alpha\pm\beta)=\sin(\alpha)\cos(\beta)\pm\sin(\beta)\cos(\alpha)$
8. $\cos(\alpha)-\cos(\beta)=-2\sin\left(\frac{\alpha+\beta}{2}\right)\sin\left(\frac{\alpha+\beta}{2}\right)$
9. $\sin(\alpha)-\sin(\beta)=2\sin\left(\frac{\alpha+\beta}{2}\right)\sin\left(\frac{\alpha+\beta}{2}\right)$
10. $\sin^2(\alpha)+\cos^2(\alpha)=1$