$$\sin x + \sin y = 2\sin\frac{x+y}{2}\cos\frac{x-y}{2}$$

$$\sin x - \sin y = 2\cos\frac{x+y}{2}\sin\frac{x-y}{2}$$

 $\cos x + \cos y = 2\cos\frac{x+y}{2}\cos\frac{x-y}{2}$

 $\cos x - \cos y = -2\sin\frac{x+y}{2}\sin\frac{x-y}{2}$

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