

Name : _____

Sum-to-Product Identities

PREVIEW

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$$\sin \theta + \sin \Phi = 2 \sin \left(\frac{\theta + \Phi}{2} \right) \cos \left(\frac{\theta - \Phi}{2} \right)$$

$$\cos \left(\frac{\theta - \Phi}{2} \right)$$

$$\sin \theta - \sin \Phi = 2 \cos \left(\frac{\theta + \Phi}{2} \right) \sin \left(\frac{\theta - \Phi}{2} \right)$$

$$\sin \left(\frac{\theta - \Phi}{2} \right)$$

$$\cos \theta + \cos \Phi = 2 \cos \left(\frac{\theta + \Phi}{2} \right) \cos \left(\frac{\theta - \Phi}{2} \right)$$

$$\cos \left(\frac{\theta - \Phi}{2} \right)$$

$$\cos \theta - \cos \Phi = -2 \sin \left(\frac{\theta + \Phi}{2} \right) \sin \left(\frac{\theta - \Phi}{2} \right)$$

$$\sin \left(\frac{\theta - \Phi}{2} \right)$$