

Double & Half-Angle Identities

1) If $\sin \theta = -\frac{\sqrt{3}}{2}$ and $\pi \leq \theta \leq \frac{3\pi}{2}$, find $\sin \frac{\theta}{2}$.

2) If $\tan \theta = \frac{3}{4}$

3) If $\tan \theta = 2$

4) If $\cos \theta = \frac{12}{13}$ and θ lies in quadrant IV, find $\sin 2\theta$.

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