

Double & Half-Angle Identities

1) If $\cos \theta = -\frac{4}{5}$ and θ lies in quadrant II, find $\sin \frac{\theta}{2}$.

2) If $\sin \theta = -$

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3) If $\tan \theta = -$

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4) If $\cos \theta = \sqrt{\frac{6}{11}}$ and $0^\circ \leq \theta \leq 45^\circ$, find $\tan 2\theta$.