

Double & Half-Angle Identities

1) If $\sin \theta = \frac{2}{3}$ and $0^\circ \leq \theta \leq 45^\circ$, find $\cos 2\theta$.

2) If $\cos \theta = -$

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3) If $\tan \theta = -$

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4) If $\sin \theta = -\frac{7}{25}$ and $\pi \leq \theta \leq \frac{3\pi}{2}$, find $\cos \frac{\theta}{2}$.

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1) If $\sin \theta = \frac{2}{3}$ and $0^\circ \leq \theta \leq 45^\circ$, find $\cos 2\theta$.

$$\frac{1}{9}$$

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$$-\frac{\sqrt{2}}{10}$$