

**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  $\cos \theta = \dots$

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3) If  $\tan \theta = \dots$

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