

**Double & Half-Angle Identities**

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

2) If  $\sin \theta = -$

# PREVIEW

Gain complete access to the largest  
collection of worksheets in all subjects!

3) If  $\tan \theta = -$

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

**Double & Half-Angle Identities**

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

$$\frac{3\sqrt{10}}{10}$$

2) If  $\sin \theta = -$

# PREVIEW

Gain complete access to the largest  
collection of worksheets in all subjects!

3) If  $\tan \theta = -$

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

$$2\sqrt{30}$$