Name : _____

Double & Half-Angle Identities

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

2) If $\sin\theta = -$

3) If $\tan\theta =$

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

Name : _____

Answer key

Sheet 1

Double & Half-Angle Identities

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

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

2) If $\sin\theta = -$

3) If $\tan\theta = -$

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

$2\sqrt{30}$