Solving Trigonometric Equations

Solve each trigonometric equation.

1) $\cos \dfrac{\theta}{2} = 0$

2) $\sin^2 11\theta = 0$

3) $\tan 3\theta = 0$

4) $\cos 5\theta = 0$

5) $\sin 2\theta = 0$

6) $\tan \dfrac{9\theta}{4} = 0$