

Honor Precalculus
Solving Trig EQs with Multiple Angles

Name: _____

Date: _____

Find the general solution of the equation.

1. $\cos \frac{x}{4} = 0$

2. $\sin \frac{x}{2} = 0$

Solve the equation on the interval $0 \leq x < 2\pi$.

3. $\tan 4x = 1$

4. $\tan 2x = -1$

5. $\sec 4x = 2$

6. $\sin 2x = -\frac{\sqrt{3}}{2}$

7. $\cos \frac{x}{2} = \frac{\sqrt{2}}{2}$

8. $\csc \frac{x}{4} = \sqrt{2}$

9. $2\sin 2x = \sqrt{2}$

10. $\sqrt{3}\tan 3x = 1$

11. $2\sin \frac{x}{2} = 1$

12. $\cos \frac{x}{3} = 0$

13. $2\sin 2x + 1 = 0$

14. $2\cos 4x + \sqrt{3} = 0$

15. $2\sin^2 3x - 1 = 0$

16. $4\cos^2 2x - 3 = 0$