PreCalculus Trig Graphs and Equations

Solving Trig Equation Practice

**Directions: Find all (infinite) solutions of the equations**

1. $2cosθ+1=0$ 1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. $cosθ-1=0$ 2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions: Solve the equation on the interval** $\left[0,2π\right)$

1. $sin4θ=\frac{\sqrt{3}}{2}$ 3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. $csc3θ=0$ 4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. $cos3x=\frac{\sqrt{3}}{2}$ 5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. $cos^{2}x+2cosx+1=0$ 6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. $2sin^{2}x=sinx$ 7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. $\left(tanx+\sqrt{3}\right)\left(2cosx+1\right)=0$ 8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. $tanxcotx-\sqrt{3}tanx=0$ 9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. $tan^{2}xsinx=tan^{2}x$ 10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_