**Session 9 Homework**

**Part 1: Basic Equations**

Find all solutions in the interval [0,2π).

1. sin(x)+1=0
2. 2cos(x)−3​=0
3. 3tan(x)−3​=0

**Part 2: Multiple Angle Equations**

Find all solutions in the interval [0,2π).

4. sin(2x)=1

5. cos(4x)=1/2

6. tan(3x)=−1

**Part 3: Quadratic-Form Equations**

Find all solutions in the interval [0,2π).

7. cos^2(x)−1=0

8. 2sin^2(x)+3sin(x)+1=0

**Part 4: Equations Requiring Identities**

Find all solutions in the interval [0,2π).

9. cos(2x)+cos(x)=0 (Use the double angle identity cos(2x)=2cos^2(x)−1)

10. sin(x)=cos(x)