8.3 The Double-Angle and Half-Angle Formulas

# OBJECTIVE 1: Understanding the Double-Angle Formulas

**The Double Angle Formulas**

 

 



# OBJECTIVE 3: Understanding the Half-Angle Formulas

**The Half-Angle Formulas**

 for in Quadrant I or Quadrant II

 for in Quadrant III or Quadrant IV

 for in Quadrant I or Quadrant IV

 for in Quadrant II or Quadrant III

 for in Quadrant I or Quadrant III

 for in Quadrant II or Quadrant IV

 for in any quadrant

 for in any quadrant

# OBJECTIVE 4: Using the Double-Angle and Half-Angle Formulas to Verify Identities

# OBJECTIVE 5: Using the Double-Angle and Half-Angle Formulas to Evaluate Expressions Involving Inverse Trigonometric Functions