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| **Class** | Algebra 2 | **Topic** | U14 – Double-Angle and Half-Angle Identities | **Lesson** | 7 | **Of** | 7 |

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| **Objective** | Students will:   * Understand the concepts of double-angles and half-angles. * Derive the half-angle and double-angle identities. * Understand how to use these identities in dealing with trigonometric equations and problems. |
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| **“I Can” Statement** | • I can use the half-angle and double-angle identities to solve trigonometric problems. |

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| **Common Core Standards** | [CCSS.MATH.CONTENT.HSF.TF.C.9](http://www.corestandards.org/Math/Content/HSG/SRT/D/10/) **Prove the addition and subtraction formulas for sine, cosine, and tangent and use them to solve problems.** |
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| **Bell Work** | Solve a quick quiz to refresh what are the angle sum and difference identities. |

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| **Procedures** | 1. Start and lead students discussion related to the bell work.  2. Distribute the Guided Notes  3. Present lesson or play a video lesson.  4. Distribute Lesson Assignment.  5. Have students check each other’s work. |

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| **Assessment** | Assignment 14-7  What are the angle sum and difference identities? |

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| **Additional Resources** | [Regents Prep online quiz](http://www.regentsprep.org/regents/math/algebra/an1/propprac.htm) |