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| **OBJECTIVES:**   * Be able to graph the sine and cosine functions in both radians and degrees, using The Five Point Method. * Note that the ranges of both ***y = sin x*** and ***y = cos x*** will be **y**-values between -1 and 1. * Understand that the term ***sinusoid*** refers to both the sine and the cosine functions. * Be able to model periodic behavior with sinusoids. * Graph one period of ***y = tan (x)*** and ***y = - tan (x).*** * Graph one period of ***y = atan (b(x – s)) + v.*** * Know why a tangent curve has **no** amplitude. * Find the **inflection point** of a tangent curve. * Locate the **asymptotes**.   **TUESDAY (11.26.24)**  **Quiz (Graphing the Sine, Cosine, and Tangent Functions)** You may use notes on 2 sheets of paper (8.5 by 11 inches), front and back.  **Class Work:**   |  | | --- | | **NEW OBJECTIVES: CHAPTER 5, Section 5 (Pages 427 – 434)** | | Know what must be given in order to use the Law of Sines: AAS, ASA, and **SSA** (The Ambiguous Case!) | | Solve triangles using the Law of Sines. | | Solve real world problems using the Law of Sines. |  * ***Quick Review*** on page 431, #1 – 10. * Read about **The Law of Sines** on pages 427 – 431. Take notes. * Solve the following problem: * http://www.regentsprep.org/regents/math/algtrig/att12/prac4.gif Points *A & B* are on one side of a river, 100' apart, with *C* on the opposite side.  The angles *A* and *B* measure 70º and 60º respectively.  What is the distance from point *A* to point *C*, *to nearest foot*? * Page 432 (1, 5, 19). | |
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