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| **Day** | **Topic** | **Lesson/Work** | **Assignment(s)** |
| **1** | Hinge Theorem;  Oblique Triangles  (9.1) | Exploration 6.1a – Intro to Oblique Triangles;  Begin Exploration 6.2a – Derivation of Law of Cosines  Summary – What did you learn? |  |
| **2** | Law of Cosines  (9.2) | Exploration 6.2a – Derivation of Law of Cosines;  Notes: Vocabulary; Law of Cosines Practice; Law of Cosines with word problems | Explorations 6.1-6.2 due today  Pg. 448: 1-11 odd  Pg. 449: 14, 15;  Create a word problem that requires Law of Cosines |
| **3** | Law of Cosines Applications  (9.2) | HW Review, exchange word problems;  Word Problems practice;  TOTD – Law of Cosines (graded) | Pg. 448: 1-11 odd  Pg. 449: 14, 15; |
| **4** | Area of a Triangle and Heron’s Formula  (9.3)  Law of Sines  (9.4) | 6-3a, 6-3b, 6-4a Area of a Triangle and Heron’s Formula; Law of Sines  Practice | Read Section 9.3, pg. 450-451 and answer the Reading Analysis Question on pg. 452;  Pg. 452-453: 1-9 odd |
| **5** | Law of Sines  (9.4) | HW Review;  6-5a Law of Sines – Ambiguous Case | Pg. 457-458: 1-11 odd;  #11 is due at the beginning of class tomorrow |
| **6** | Law of Sines – The Ambiguous Case  (9.5) | HW Review;  **Quiz** – Law of Sines and Area of a Triangle  Exploration 6.5b – The Golf Ball Problem; | Complete Golf Ball Problem if necessary;  Pg. 461-462: 1-11 odd |
| **7** | Area, Law of Cosines, and Law of Sines  (9.1-9.5) | HW Review;  Mixed Practice WS | Complete Mixed Practice WS if necessary |
| **8** | Area, Law of Cosines, and Law of Sines | Hand out Performance Task – Combining Lots (graded);  Review | Performance Task due day after test – show work!  Study for Test |
| **9** | Area, Law of Cosines, and Law of Sines | Test Unit 3 |  |

**APPLICATIONS of Sine and Cosine Project is DUE Monday 2/11/19!**