Homework:

7.1 #1-21 odd solving triangles with Law of Sines
7.1 #29,30,33,34,35 word problems with Law of Sines

• 7.2 #9-19 odd solving triangles with Law of Cosines

• 7.2 #25-29odd; area

• 7.2 #38,43,46,47,48 word problems with Law of Cosines

• 7.3 #37, 41, 43 word problems with Law of Sines/Cosines

Expect a quiz on Law of Sines/Cosines on Thursday (tomorrow, 6 Feb)

Homework due Friday (last homework grade)

Test #4 Canceled

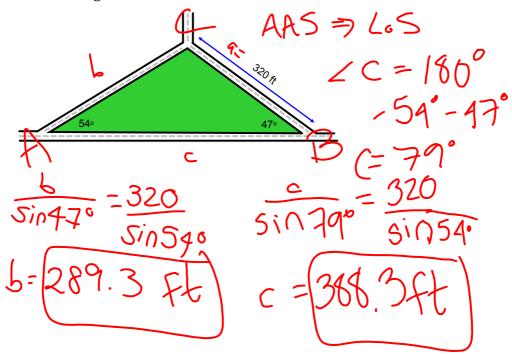
Thurs: continue with law of sines/cosines applications, begin review

Fri, Mon: review for Comprehensive Final Exam (1:00pm Wed. 12 Feb)

Ch 7: Applied Problems with the Law of Sines and Cosines

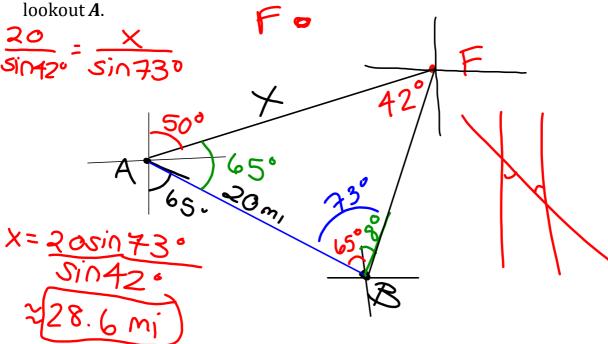
7.1 #32

Three roads intersect in such a way as to form a triangular piece of land. Find the lengths of the other two sides of the land.



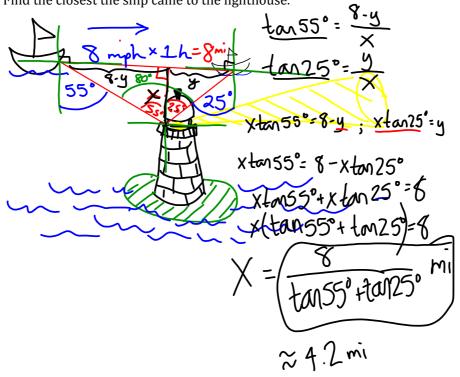
7.1 #34

Two ire lookouts are located on mountains 20 miles apart. Lookout \boldsymbol{B} is at a bearing of S65°E from \boldsymbol{A} . A ire was sighted at a bearing of N50 °E from \boldsymbol{A} and at a bearing of N8°E from \boldsymbol{B} . Find the distance of the ire from



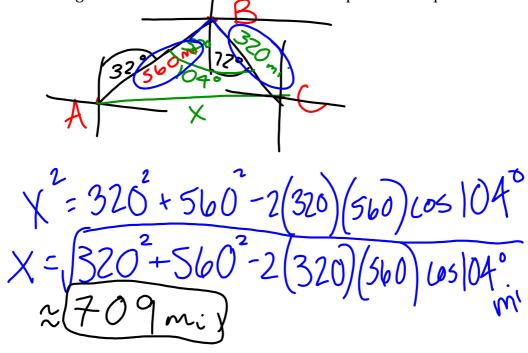
<u>7.1 #36</u>

The navigator on a ship traveling due east at 8 mph sights a lighthouse at a bearing of S55°E. One hour later it is sighted at a bearing of S25°W. Find the closest the ship came to the lighthouse.



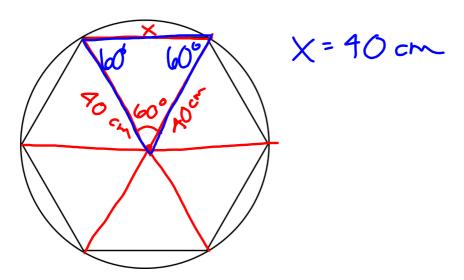
7.2 #37

A plane leaves airport \boldsymbol{A} and travels 560 miles to airport \boldsymbol{B} at a bearing of N32°E. The plane leaves airport \boldsymbol{B} and travels to airport \boldsymbol{C} 320 miles away at a bearing of S72°E. Find the distance from airport \boldsymbol{A} to airport \boldsymbol{C} .



<u>7.2 #45</u>

A regular hexagon is inscribed in a circle with a radius of 40 centimeters. Find the length of one side of the hexagon.



Theading Is always measured clockwise from N

A ship leaves a port at a speed of 16 mph at a heading of 32°. One hour later another ship leaves the port at a speed of 22 mph at a heading of 254°. Find the distance between the ships 4 hours after the irst ship leaves the port.

22 mp 1 25 x 3 (05)38

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