Are there any Homework Questions you would like to see on the board? pp. 299-301 # 2 – 5, 7, 9

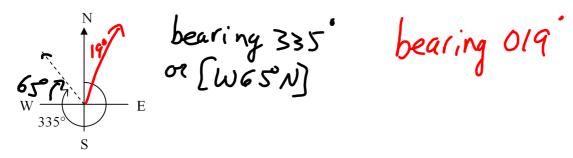
Today's Learning Goal(s): Return Unit 4 Summative?

a) Use the sine law cosine law to solve word problems.

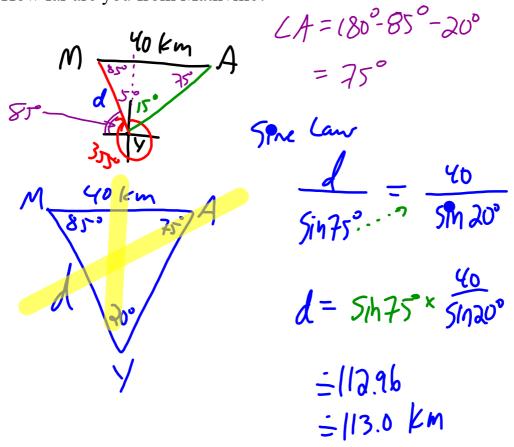
MCF 3MI 5.5 Solving Trigonometry Problems II

Date: 400. 24/18

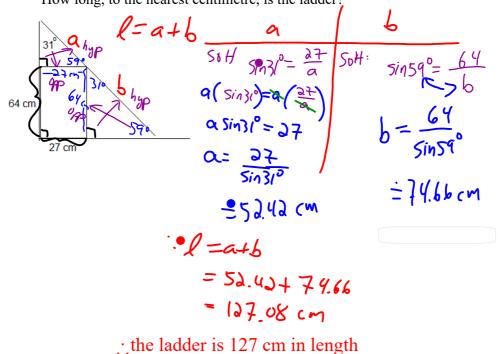
**Bearing** – A bearing is a clockwise angle from magnetic north. For example, the dashed line shows a bearing of 335°.



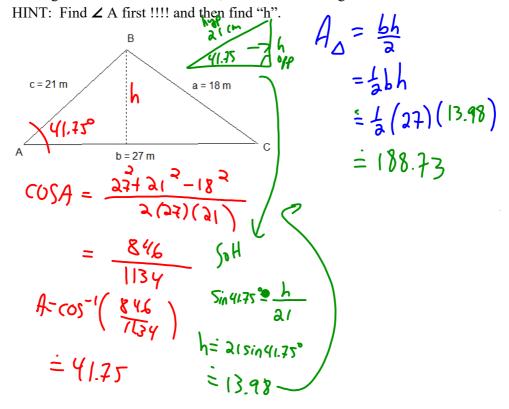
Ex.1: Mathville is 40 km due west of Awesometown. From where you are, Mathville is at a bearing of 355°, and Awesometown is a bearing of 015°. How far are you from Mathville?



Ex. 2: A ladder leaning against a wall makes an angle of 3 l with the wall. The ladder touches a box that is flush against the wall and the ground. The box has a height of 64 cm and a width of 27 cm. How long, to the nearest centimetre, is the ladder?

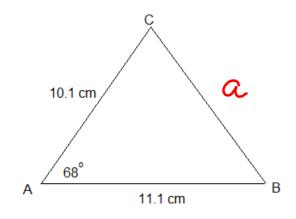


Ex. 3: Jim has a triangular backyard with side lengths of 27 m, 21 m and 18 m. If 1 bag of fertilizer covers 400 m<sup>2</sup>, does he have enough fertilizer?



ANS: Jim has enough fertilizer to cover the lawn twice, with 22.44 m<sup>2</sup> left over.

Ex. 4: Solve  $\triangle$  ABC, given:  $\angle$  A=68°, b=10.1 cm, c=11.1 cm



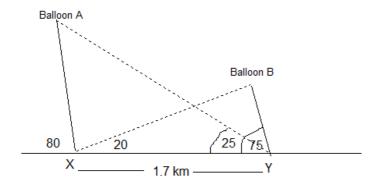
Coshe Law

 $a = 11.1^{2} + 10.1^{2} - 2(11.1)/(0.1) \cos 68^{2}$ 

Ex. 5: Two observers standing at points X and Y are 1.7 km apart.

Each person measures angles of elevation to two balloons, A and B, flying overhead as shown.

(Round your answers to the nearest tenth of a km)



a) How far is balloon A from point X? From point Y?

· balloon A is	· balloon A	

b) How far is balloon B from point X? From point Y?

∴balloon B	: balloon B is	

c) How far apart are balloons A and B?

## **Today's Homework:**

Be prepared for SWYK 5.2 tomorrow on the Sine LAW and the Cosine LAW.

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READ p. 308 AND pp. 309-311 # 1 – 10, 12, 13 AND READ p. 313
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(Work ahead on the review)