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Homework Questions opposites

2b)

6. 
$$\frac{1}{3}$$

Cos  $A = b^2 + c^2 - b^2$ 
 $\frac{1}{2}$ 

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 $\frac{1}{2}$ 

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 $\frac{1}{2}$ 

Cos  $A = b^2 + c^2$ 
 $\frac{1}{2}$ 

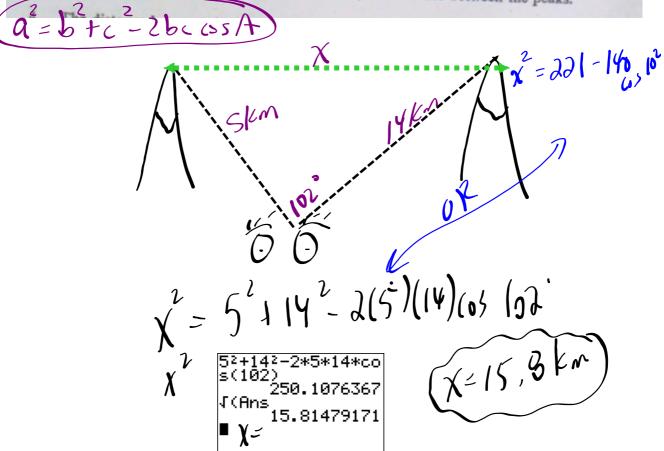
Cos  $A = b^2 + c^2$ 
 $\frac{1}{2}$ 

Cos  $A = b^2 + c^2$ 
 $\frac{1}{2}$ 

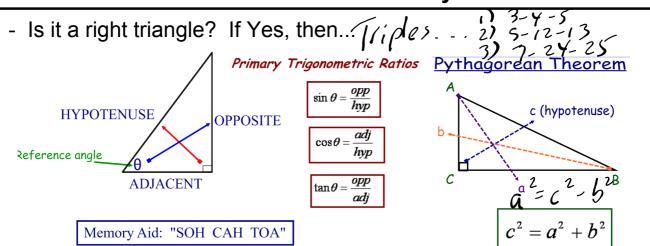
Cos  $A = b^2 + c^2$ 

10.12

From a point on a plain the distances from Jean's eyes to the peaks of two mountains at the same height are 5 km and 14 km. If the angle between her lines of sight is 102° find, to the nearest kilometre, the distance between the peaks.



## REVIEW - What formula do I use? Ask yourself...



- If you are finding a side, do you have SAS? If Yes, then...

## Law of Cosines

$$a^2 = b^2 + c^2 - 2bc \cos A$$

- If you are finding an angle, do you have SSS? If Yes, then...

Law of Cosines (rearranged)

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

- Anything else...use your Law of Sines!

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$
"when looking for a side" "when looking for an angle"

## EXTRA PRACTICE TIME...Finish for HW!!!

Review - Primary Trig Ratios\_Law of Sines\_Cosines.pdf

$$\sin\theta = \frac{opp}{hyp}$$

$$\cos\theta = \frac{adj}{hyp}$$

$$\tan \theta = \frac{opp}{adi}$$

$$c^2 = a^2 + b^2$$

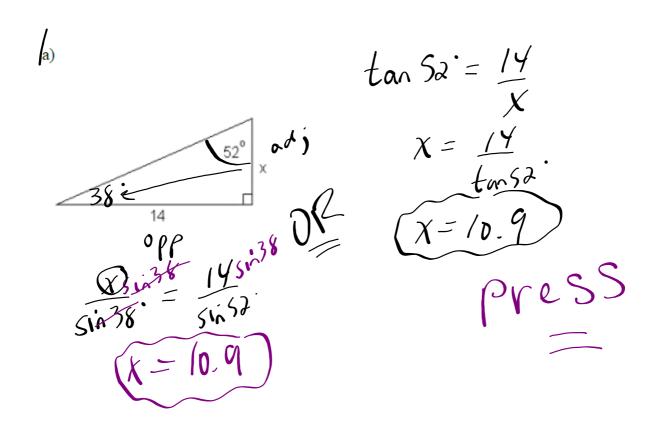
$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

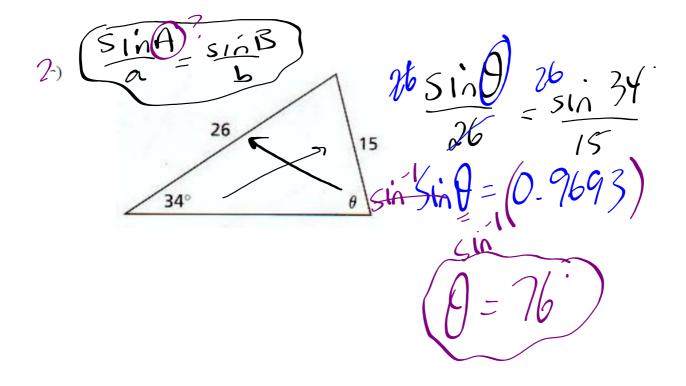
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

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Review - Primary Trig Ratios\_Law of Sines\_Cosines.pdf