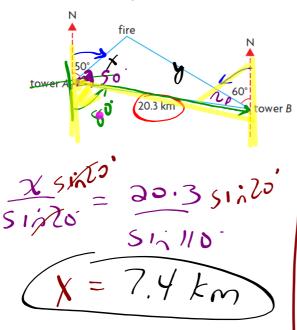
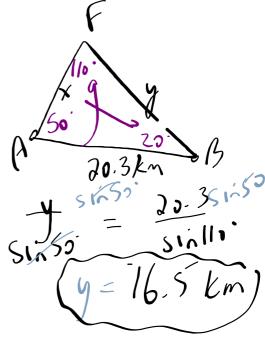
# HOMEWORK QUESTIONS...

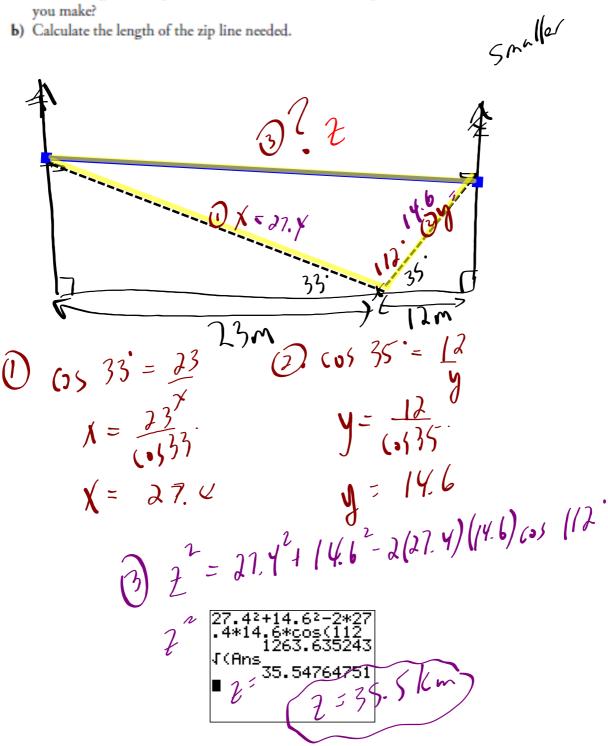
### **PRACTISING**

2. Two forest-fire towers, *A* and *B*, are 20.3 km part. From tower *A*, the compass heading for tower *B* is \$80°E. The ranger in each tower sees the same forest fire. The heading of the fire from tower *A* it N50°E. The heading of the fire from tower *B* is N60°W. How far, to the nearest tenth of a kilometre, is the fire from each tower?



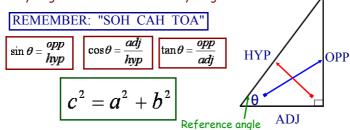


- 13. A zip line is going to be suspended between two trees. From the forest floor, 12 m from the base of the smaller tree, the angles of elevation to the tree platforms measure 33° and 35°. The distance between the two trees
  - a) Draw a diagram to represent this situation. What assumptions did you make?
  - b) Calculate the length of the zip line needed.

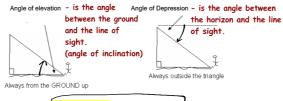


# **REVIEW** - Trigonometry

Pythagorean Theorem & Primary Trig Ratios

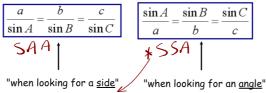


Applications of Primary Trig



Also, note that the angle of elevation = angle of depression

• Law of Sines & Its Applications



## Ambiguous??? Need 3 C's...

#### **CALCULATION CASES CRITERIA**

- SSA
- h = bsinA
- 1) a < h

acute angle

(no solution)

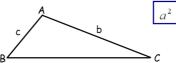
- a < b

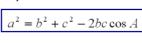
- 2) a = h
- (1 right triangle)
- Law of Cosines & Its Applications
- 3) a > h

2 Solutions...Law of Sines

Finding an unknown side... • 2 sides and a contained angle (SAS)

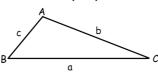
Calc & 180 - Calc

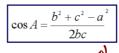




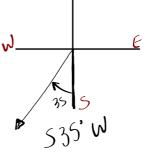
Finding an unknown angle...

• 3 known sides (SSS)





- Bearings and Multi-step Word Problems
- "Solving" find ALL angles & sides



Untitled.notebook October 24, 2017

Review for Test - Lots of Practice from the Textbook!!!	
Chapter Review	<b>Page 128</b> (hp 3
(Frequently Asked Questions)	Page 153
Friday	Page 174 Page 199
Practice Questions George	Page 129 #1 - 9 7 1
* Ambiguous (ase > 4.3 All 1) )	Page 129 #1 - 9 Page 154 #1 - 12
	Page 175 #1 - 9 Page 200 #1 - 8
Practice Tests Practice	Page 152 #1 - 8 Ch 2.3 Page 198 #1 - 7 Chy. 4
	Page 198 #1-7   hg · '