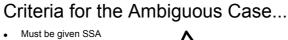
'HOMEWORK...

Worksheet - Ambiguous Case.pdf

Do questions #1, 2, 4a©, 5a© 6 **MEMORIZE!!!**



- Given angle is acute

If ALL 3 criteria are met, then... CALCULATE THE ALTITUDE



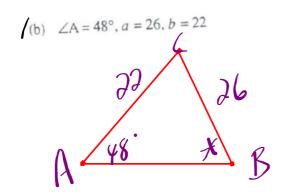
CASE 1: a < altitude; there is NO SOLUTION

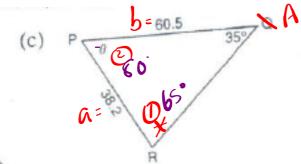
CASE 2: a = altitude; there is <u>ONE SOLUTION</u> [Right Triangle]

CASE 3: a >altitude; this is the <u>'AMBIGUOUS CASE'...TWO SOLUTIONS</u>

- 1) Acute Triangle (angle, θ , is found with Law of Sines)
- 2) Obtuse Triangle (angle is 180° θ)

QUESTIONS?





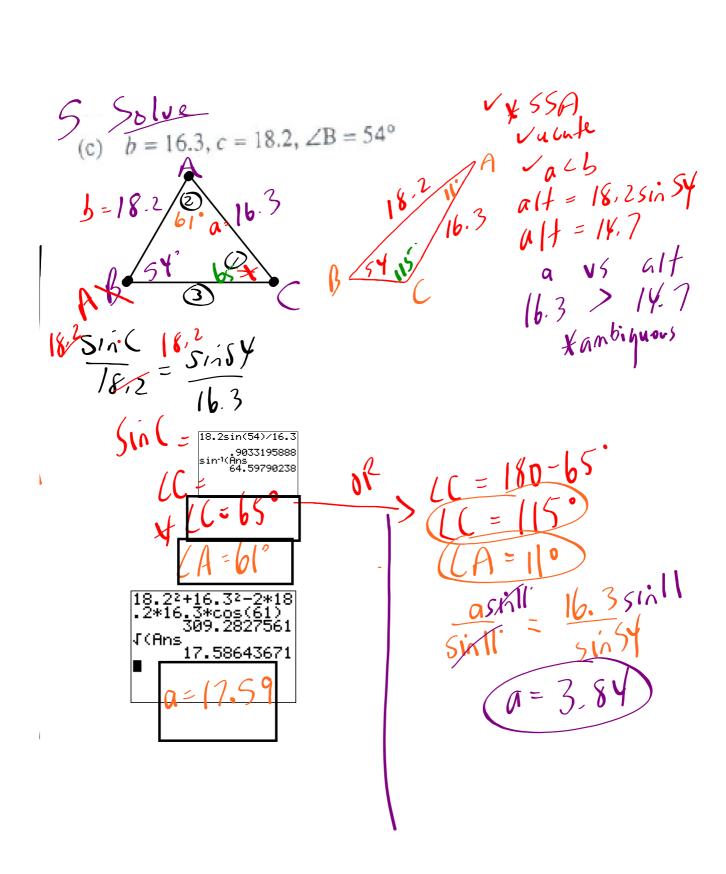
$$\frac{50.5}{50.5} = \frac{60.5 \sin(35)}{38.2}$$

$$\frac{60.5 \sin(35)}{38.2}$$

$$\frac{9084129424}{\sin(65.28694508)}$$

$$\frac{65.28694508}{65.28694508}$$

VXSSA Vacute urgle Xa < b Core solution



3

Two forest fire stations, P and Q, are 20.0 km apart. A ranger at station Q sees a fire 15.0 km away. If the angle between the line PQ and the line from P to the fire is 21°, find how far station P is from the fire. 6

Review for Test - Lots of Practice from the Textbook!!!	
Chapter Review	Page 128 () () () ()
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	Page 175 #1 - 9 Page 200 #1 - 8
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Practice Tests	Page 152 #1 - 8 Ch ? 3 Page 198 #1 - 7 Chy. 4
	Page 198 #1 - 7 Chy

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