Chapter 4: Trigonometry (Obtuse)

3.6 Sine Law: The ________________________ Case

Say you have a triangle where A=30 and \( b = 12 \)… What is the height?

What happens if \( a \) is 4?

What happens if \( a \) is 6?

What happens if \( a \) is 8?

What happens if \( a \) is 15?
Example: Determine if there are zero, one, or two possibilities for this triangle:

a) \( \angle A = 70^\circ, a = 5 \text{ m}, b = 10 \text{ m} \)

b) \( \angle A = 30^\circ, a = 5 \text{ m}, b = 8 \text{ m} \)

Example: Does this triangle involve the SSA situation? How many triangles are possible?

a) \( \angle B = 70^\circ, a = 5 \text{ m}, c = 10 \text{ m} \)

b) \( \angle C = 50^\circ, a = 8 \text{ m}, c = 10 \text{ m} \)
Assignment:

Textbook: p.183 #1-4
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