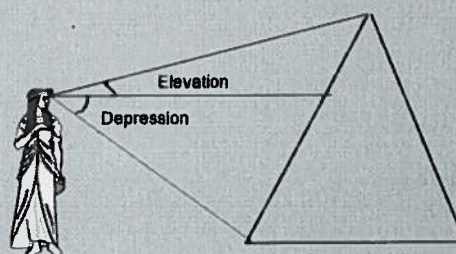


Section 2.5 - SOLVING PROBLEMS**KEY TERMS -**

Angle of Elevation - The angle formed between the horizontal and the line of sight when you look up.

Angle of Depression - The angle formed between the horizontal and the line of sight when you look down.

Feb 28-3:16 PM

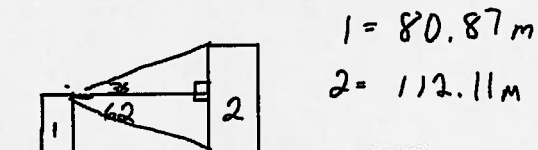
Angle of Elevation and Angle of Depression

Feb 28-3:05 PM

Example 2 - Textbook - page 85

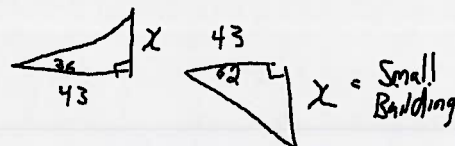
Feb 2-3:49 PM

Mary stands on the roof of a building. She looks up at a second building forming an angle of elevation of 36° . She then looks down at the base of the second building forming an angle of depression of 62° . If the buildings are 43 m apart, how tall is each building?



$$1 = 80.87 \text{ m}$$

$$2 = 112.11 \text{ m}$$



Sep 28-1:11 PM

Assignment Textbook

Page 87 # 11 Example page 85

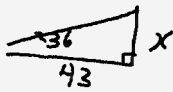
Page 95 # 13

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Section 2.5 - SOLVING PROBLEMS**Textbook - Assignment**

page 86-87 #'s 1, 2, 3
6, 8, 9,

Feb 28-3:28 PM

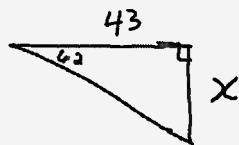
Solution

$$\tan = \frac{\text{opp}}{\text{adj}}$$

$$\tan 36 = \frac{x}{43}$$

$$x = \tan 36 \times 43$$

$$x = 31.24$$



$$\tan = \frac{\text{opp}}{\text{adj}}$$

$$\tan 62 = \frac{x}{43}$$

$$x = \tan 62 \times 43$$

$$x = 80.87$$

Mar 2-2:03 PM

Mar 2-2:46 PM