

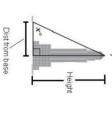
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ExamView

Find the angle of elevation if you are standing 898 feet from the base of building that has a height of 921 feet. The picture below is not drawn to scale; it is for reference only.



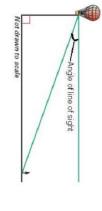
a. 46.18°
 b. 45.87°

c. 45.97° d. 45.72°

ExamView

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You are in a hot air balloon that is 917 feet above the ground where you can see your friend. If the angle from your line of sight to your friend is 31°, how far is he from the point on the ground below the hot air balloon?

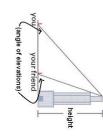


a. 1526.3 feetb. 1525.81 feet

c. 1526.14 feet
 d. 1525.73 feet

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You are a block away from a skyscraper that has a height of 968 feet. Your friend is between the skyscraper and yourself. The angle of elevation from your position to the top of the skyscraper is 42 degrees. The angle of elevation from your friend's position to the top of the skyscraper is 73 degrees. How far are you from your friend? The picture below is not drawn to scale; it is for



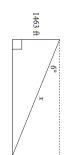
a. 779.24 feetb. 779.13 feet

778.77 feet
 778.69 feet

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ExamView

To approach the runway, a pilot of a small plane must begin a 6° descent starting from a height of 1463 feet above the ground. To the nearest tenth of a mile, how many miles from the runway is the airplane at the start of this approach?



13,996.2 mi

b. 2.6 mi

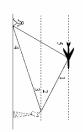
Not drawn to scale

c 0.3 mi

> <u>d</u> 2.7 mi

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ExamView



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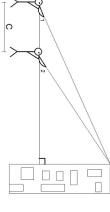
What is the description of $\angle 2$ as it relates to the situation shown?

- is the angle of depression from the radar tower to the airplane.
 is the angle of elevation from the radar tower to the airplane.
 is the angle of elevation from the airplane to the radar tower.
 is the angle of depression from the airplane to the radar tower.
- ф. c. p. в

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exactly five feet off the ground and the building is on level ground with both of you, how tall is the building? Express your answer rounded to the nearest hundredth of a foot. buildings. In the picture below that may not be drawn to scale, the measure of between you and your buddy is 33 feet as shown with, "C". If your eyes are angle 1 is 21 degrees and the measure of angle 2 is 35 degrees. The distance You and your buddy are using inclinometers to find the height of various



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