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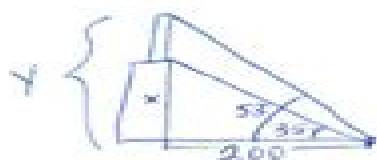
Period _____

Geometry and Finite H

Miss Katkovcin

Unit 9 Day 4: Applications with Two Triangles

1.) A building has a smokestack on top of it. At a point 200 feet from the base of a building, the angle of elevation to the bottom of the smokestack is 35° , and the angle of elevation to the top of the smokestack is 53° . Find the height of the smokestack to the nearest hundredth of a foot.



$$\tan 35^\circ = \frac{x}{200}$$

$$x = 140.04 \text{ ft.}$$

$$\tan 53^\circ = \frac{y}{200}$$

$$y = 265.41 \text{ ft.}$$

$$265.41 - 140.04 = \boxed{125.37 \text{ ft.}}$$

2.) From the top of a cliff that is 105 feet above sea level, Renee looks straight out at the ocean and spots a boat at an angle of depression of 35° . Looking beyond that boat, she spots another boat at an angle of depression of 23° . To the nearest hundredth of a foot, how far apart are the boats?



$$\tan 35^\circ = \frac{105}{x}$$

$$x = 149.96 \text{ ft}$$

$$\tan 23^\circ = \frac{105}{y}$$

$$y = 247.36 \text{ ft.}$$

$$247.36 - 149.96 = \boxed{97.41 \text{ ft.}}$$

3.) A communications tower is built on top of a building with the following specifications: from a point 200 meters from the base of the building, the angle of elevation to the top of the building is 15.9° and the angle of elevation to the top of the tower is 23.6° . Find the height of the tower to the nearest hundredth of a meter.



$$\tan 15.9^\circ = \frac{x}{200}$$

$$x = 56.97 \text{ m}$$

$$\tan 23.6^\circ = \frac{y}{200}$$

$$y = 83.38 \text{ m}$$

$$83.38 - 56.97 = \boxed{30.41 \text{ m}}$$

4.) Derek looks into the sky and sights a plane (call it plane A) flying at an altitude of 12,000 feet at an angle of elevation of 37° . Looking straight beyond that plane, he sees another plane (call it plane B) flying at the same altitude but at an angle of elevation from Derek of 13° . To the nearest foot, how far apart are the two planes?



$$\tan 37^\circ = \frac{12000}{x}$$

$$x = 15,924.54 \text{ ft.}$$

$$\tan 13^\circ = \frac{12000}{y}$$

$$y = 51,977.71 \text{ ft}$$

$$51,977.71 - 15,924.54 = \boxed{36,053 \text{ ft.}}$$

Blue Pelican Math Geometry Unit 9 Answers

Rose Arny



Blue Pelican Math Geometry Unit 9 Answers:

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