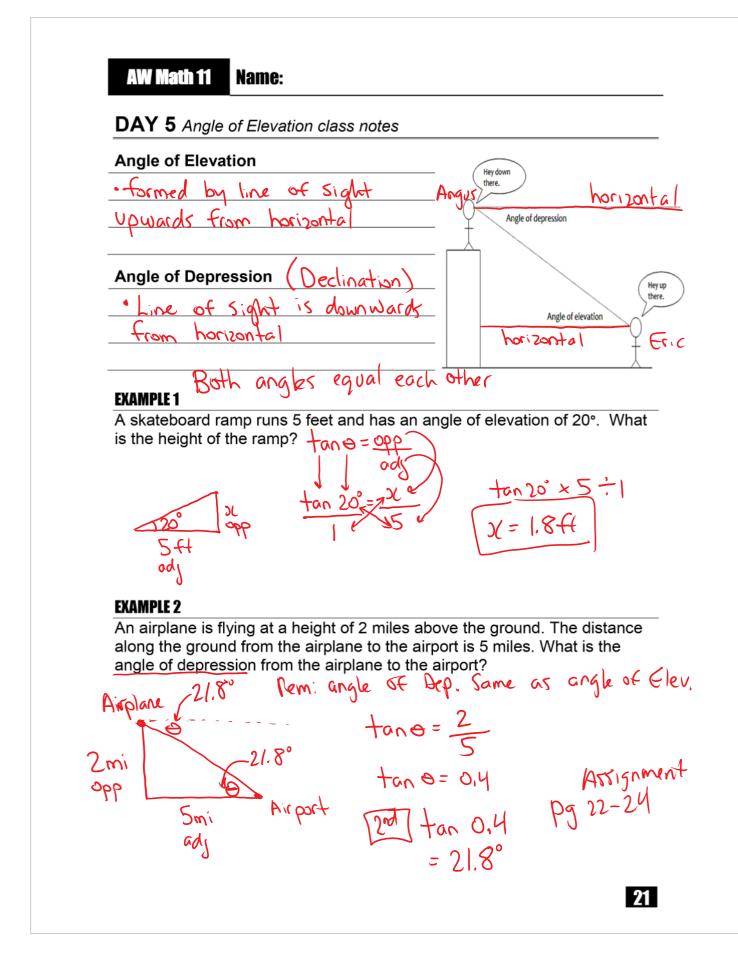
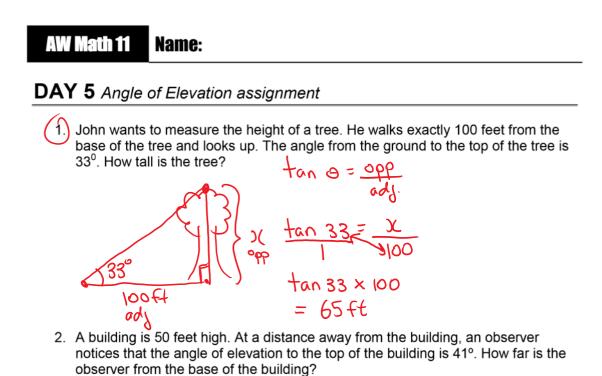
Day 5: Angle of Elevation

Friday, September 20, 2013 9:34 AM





3. An airplane is flying at a height of 3 miles above the ground. The distance along the ground from the airplane to the airport is 8 miles. What is the angle of depression from the airplane to the airport?

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4. A campsite is 9.41 miles from a point directly below the mountaintop. If the angle of elevation is 12 degrees from the camp to the top of the mountain, how high is the mountain?

5. At a point 42.3 feet from the base of a building, the angle of elevation of the top is 75° . How tall is the building?

6. How far from the door must a ramp begin in order to rise 3 feet with an 8⁰ angle of elevation?

7. An A-frame cabin is 26 feet high at the center and the angle the wall makes with the base is 53⁰. How wide is the base?

8. A building casts a shadow of 110 feet. If the angle of elevation from that point to the top of the building is 29⁰, find the height of the building.

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9. A building is 41.29 ft tall. The shadow cast by the building is 46.83 ft. Find the angle of elevation of the sun.

10. Joanna knows that when she stands 134 ft from the base of a flagpole, the angle of elevation to the top of the flagpole is 27⁰. If her eyes are 5.4 ft from the ground, find the height of the flagpole.

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