

**LESSON**

**Geometry Lab Recording Sheet** p. 550

**8-4**

***Indirect Measurement Using Trigonometry***

**Try This**

1. How is the angle reading from the clinometer related to the angle of elevation from your eye to the top of the object you are measuring?

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2. Draw and label a diagram showing the object and the measurements you made.

Then use trigonometric ratios to find the height of the object. \_\_\_\_\_

3. Repeat the activity, measuring the angle of elevation to the object from a different distance.

How does your result compare to the previous one?

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4. Describe possible measurement errors that can be made in the activity.

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5. Explain why this method of indirect measurement is useful in real-world situations.

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