

## Moment Diagrams

### Description

This project compares a calculated moment diagram with one constructed with a weighted string.

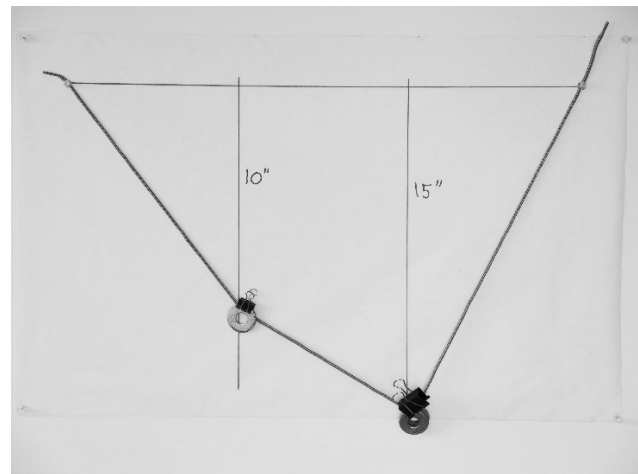
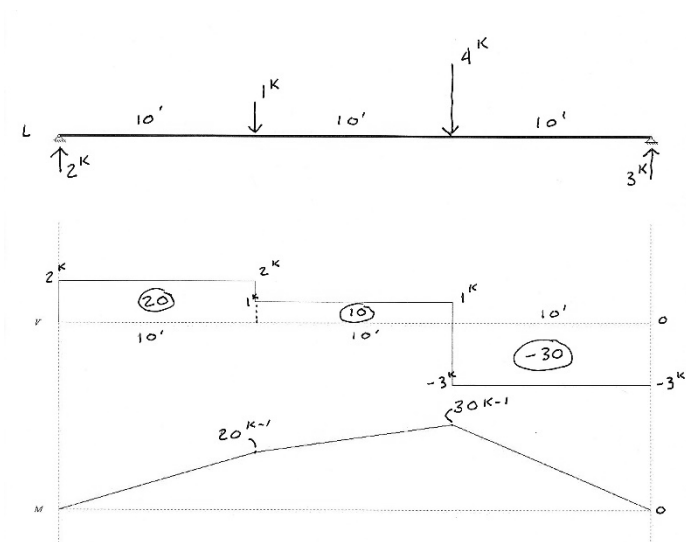
### Goals

To measure the distances to the weights on a catenary model.

To compare the scaled height of the string model with the calculate heights on the diagram.

### Procedure

1. Check the shear and moment diagrams for the beam below.
2. Place the same load on the string and measure the deflection at the weights.
3. Compare the string model with the moment diagram and determine the scale factors.



### Scale factors

$$\frac{A \text{ in}}{B \text{ in}} : \frac{20 \text{ k-ft}}{30 \text{ k-ft}}$$

Scale = 1 in. to \_\_\_\_\_ k-ft

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