**Objective:** Model the relationship between output distance and input distance (put *din*on the *y*-axis); input force and output force (put *Fout* on the *y*-axis); and energy input and useful work output for a pulley. Sim found at <http://gateway.golabz.eu/embed/apps/0907267a-b827-42d5-9788-999bbc8a87a4/app.html> . Make sure you select the “moveable” pulley. When graphing, put *din*, *Fout*, and *Wuseful* on the y-axes.

**Diagrammatical:**

**Graphical:**

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**Mathematical & Word:**