

Pythagorean Ramps

Objective: Construct a right triangular ramp whose side lengths are a represent a right triangle as proven by the Pythagorean Theorem. .

DUE DATE: 01 MAY 2015

Grading:

Category	31/32	28/32	24/32	20/32
Accurate	side lengths are a right triangle.; track fits exactly on ramp (1.5" width)	side lengths are less than 1" inaccurate; track fits exactly on ramp (1.5" width).	side lengths are $1" < x \leq 2"$ inaccurate; track fits on ramp ($1.5" < w \leq 2"$)	sides more than 2" inaccurate; track fits on ramp (width less than 1.5" or greater than 2"
Stable	stands up with no movement.	stands up with no movement	stands up with less than 1" of movement	stands up but with more than 1" of movement.
Sturdy-Durable	remains stable during launch test	remains stable during launch test	some movement during launch test	consistent movement during launch test

MODEL:

Tasks:

1. Determine the missing hypotenuse of your right triangular ramp.
2. Construct a ramp, similar to the one in the picture, whose sides complete a right triangle. ***The vertical distance (height) must always be 30cm!***
3. Submit electronically a written description of your construction procedures. This description should be typed, double-spaced, 12 pitch, Times or Times New Roman, Arial or Helvetica font. Cover page shall include a picture of your ramp, Filename: nLastNameFirstInit-Pythagorean RampN3CS15.

