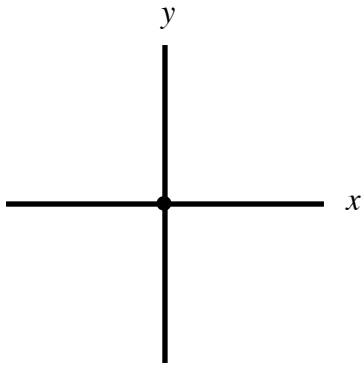
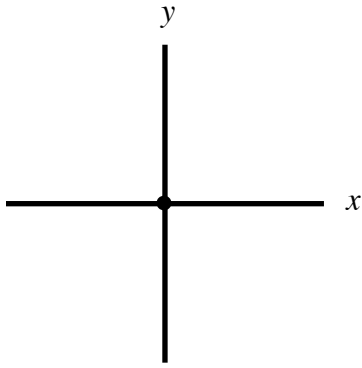
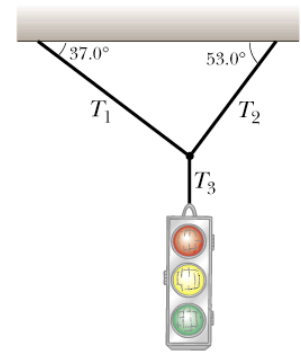


Example: Traffic Light

A traffic light weighing 125 N hangs at rest by a configuration of (massless) ropes as shown in the figure. Find the tensions T_1 , T_2 and T_3 .

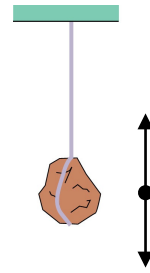


Example: Hanging Rock

(10 points) A rock weighing 25 N hangs at rest from a string. What is the tension in the string?

Student's solution: $T = 25 \text{ N}$

Grade the solution (from 0-10 points) and explain why you assign that score:

**Professor's solution:**

(Physics Principle; Application; Sign Convention)

Example: Using a Scale

An object hangs from a scale at rest. The reading on the scale is F_{sp} . What is the weight of the object?

