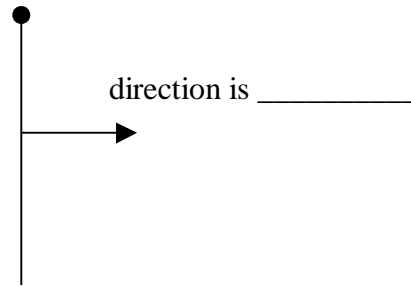
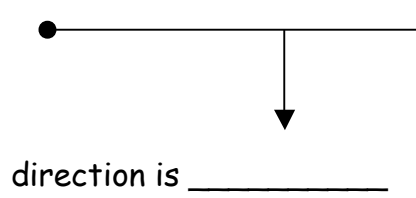


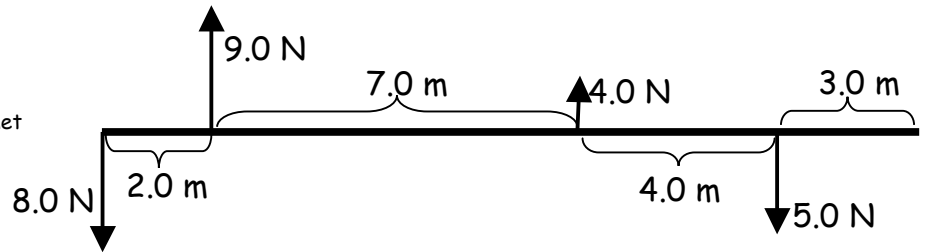
Note Taking Guide - Episode 702

Torque directions are _____ or _____.



Problem set #1: (on back)

Ex. Problem - Calculating T_{net}



CW torque

CCW torque

$T_{net} = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$

Problem Set #2: Use the pivot point assigned and re-work the problem:

$T_{net} = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$

Note Taking Guide - Episode 702

When an object is in rotational equilibrium:

-
-
-

Ex. Problem #1: Rotational Equilibrium

A uniform seesaw is 3.2 m long, with its pivot at the center. A girl weighing 580 N sits at one end. Where would a boy weighing 670 N need to sit to balance the seesaw?

Ex. #2: A uniform seesaw is 3.2 m long, with its pivot at the center. A girl weighing 580 N sits at one end. A boy balances the seesaw by sitting _____ from his end. What is his weight?

Ex: A railroad tie weighs 920 N and is 2.6 m long. How much force is required to:

a. pick it up off the ground?

b. lift one end and rotate it uniformly? _____

c. lift it 0.6 m from one end, pivoting around the opposite end? _____

Problem Set #3 and Show What You Know questions (on back.)