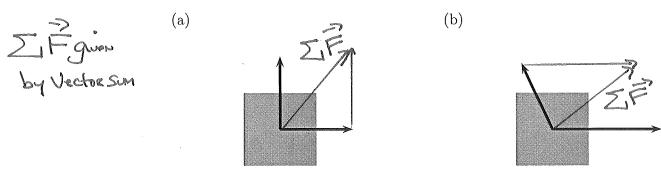
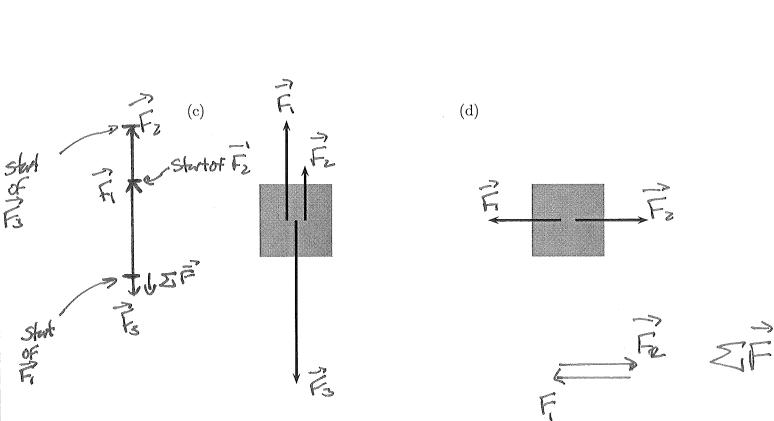
Chapter 4, Sections 4.1-4.4

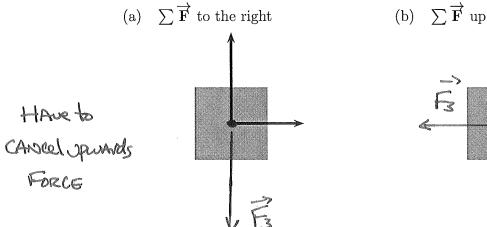
4.2 - Force

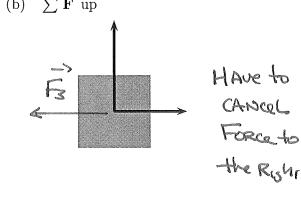
(1.) Two or more forces are shown on the objects below. Draw and label the net force $\sum \overrightarrow{\mathbf{F}}$.

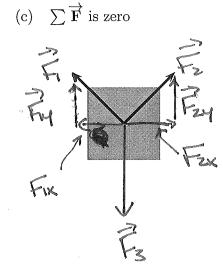




(2.) On each of the objects below, two out of three forces are shown. The direction of the net force is given, draw and label the smallest possible third force.





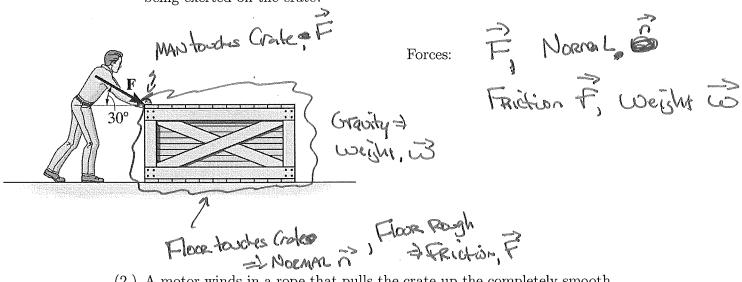


F, AND FZ Already (And) EACH OTHER IN X-Chredien So just Need A Downward Force with length [Fy+Fzy]

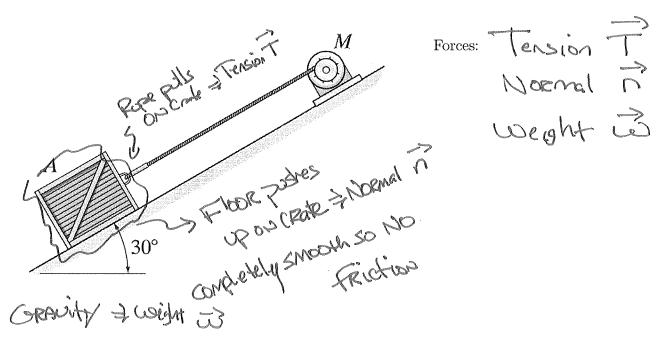
4.4 - Identifying Forces

For each of the following pictures and situations identify and name all forces acting on the object of interest. *Note:* These pictures may contain additional information that may not be necessary to include yet. You may want to refer to Tactics Box 4.2 of the textbook for examples.

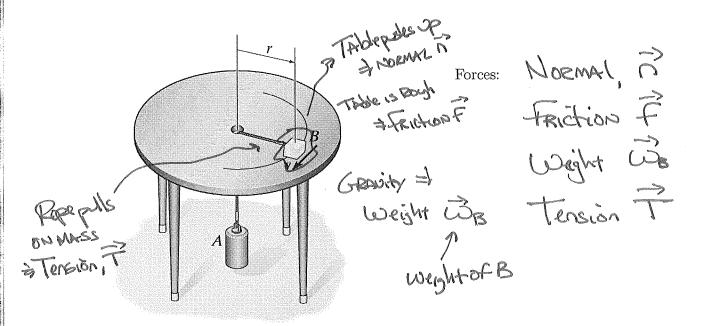
(1.) A man pushes a crate across a rough, horizontal floor. What forces are being exerted on the crate?



(2.) A motor winds in a rope that pulls the crate up the completely smooth incline. What forces are being exerted on the crate?



(3.) Block B is circling around a rough table while connected to a rope that passes through a hole in the center of the table down to cylinder A. What are the forces being exerted on block B?



(4.) A man stands at the edge of a diving board which is supported by two springs at A and B. What forces are being exerted on the diving board?

