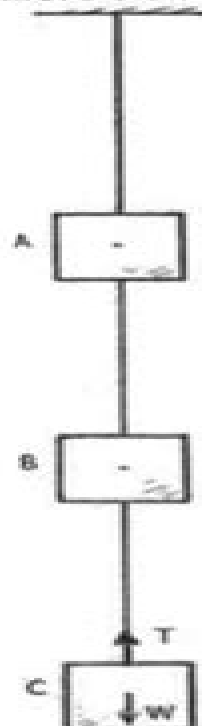


## Chapter 5 Newton's Third Law of Motion More on Vectors



1. Each of the vertically-suspended blocks has the same weight  $W$ . The two forces acting on Block C ( $W$  and rope tension  $T$ ) are shown. Draw vectors to a reasonable scale for rope tensions acting on Blocks A and B.

2. The cart is pulled with force  $F$  at angle  $\theta$  as shown.  $F_x$  and  $F_y$  are components of  $F$ .

- How will the magnitude of  $F_x$  change if the angle  $\theta$  is increased by a few degrees?  
[more] [less] [no change]
- How will the magnitude of  $F_y$  change if the angle  $\theta$  is increased by a few degrees?  
[more] [less] [no change]
- What will be the value of  $F_x$  if angle  $\theta$  is  $90^\circ$ ?  
[more than  $F$ ] [zero] [no change]



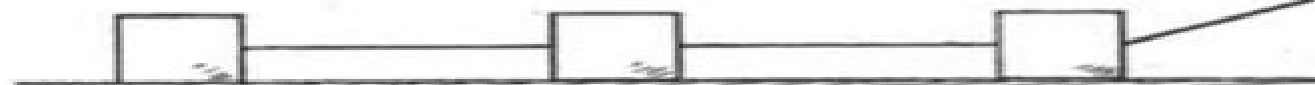
If you're into trig.

$$\sin \theta = \frac{F_y}{F} ; \text{ so } F_y = F \sin \theta.$$

$$\cos \theta = \frac{F_x}{F} ; \text{ so } F_x = F \cos \theta.$$



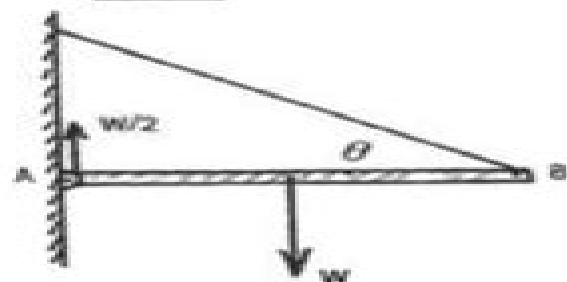
3. Force  $F$  pulls three blocks of equal mass across a friction-free table. Draw vectors of appropriate lengths for the rope tensions on each block.



4. Consider the boom supported by hinge A and by a cable B. Vectors are shown for the weight  $W$  of the boom at its center, and  $W/2$  for vertical component of upward force supplied by the hinge.

- Draw a vector representing the cable tension  $T$  at B. Why is it correct to draw its length so that the vertical component of  $T = W/2$ ?

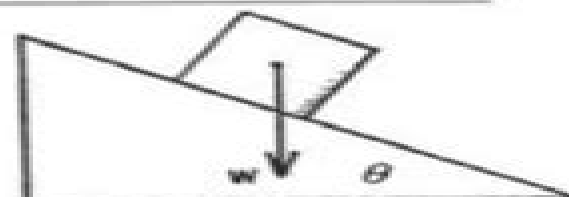
- Draw component  $T_x$  at B. Then draw the horizontal component of the force at A. How do these horizontal components compare, and why?



5. The block rests on the inclined plane. The vector for its weight  $W$  is shown. How many other forces act on the block, including static friction? \_\_\_\_\_. Draw them to a reasonable scale.

- How does the component of  $W$  parallel to the plane compare with the force of friction? \_\_\_\_\_

- How does the component of  $W$  perpendicular to the plane compare with the normal force? \_\_\_\_\_



# Chapter 24 Conceptual Physics

**L Manion**



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