

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  $F$ .



a. How will the magnitude of  $F_x$  change if the angle  $\theta$  is increased by a few degrees?

[more] [less] [no change]

b. How will the magnitude of  $F_y$  change if the angle  $\theta$  is increased by a few degrees?

[more] [less] [no change]

c. What will be the value of  $F_x$  if angle  $\theta$  is  $90^\circ$ ?

[more than  $F$ ] [zero] [no change]

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.



If you're into trig,

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

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


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.

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

\_\_\_\_\_

b. 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.

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

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



# Conceptual Physics Practice Page Rotational Motion Answers

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**Conceptual Physics Practice Page Rotational Motion Answers:**

The Top Books of the Year Conceptual Physics Practice Page Rotational Motion Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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