



# Osun State University [UNISOUN]

PHY 101

General Physics I.

Topic: Newton's Laws of Motion  
(Calculations).

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Department of Physics..

Osogbo, 2025/26 Academic Session.

**3** NEWTON'S  
LAWS OF  
F MOTION  
FIRST LAW

**2** GRAVITY  
ACCEETION  
NORMAL LAW

**2** OPPOSITE  
FORCE



**3** FORCE

**3** OPPOSITE  
FORCE  
THERD LAW



# Example 1

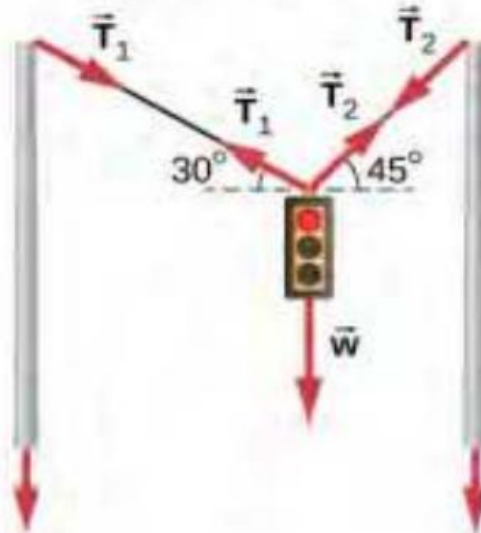
(6.1)

Sketch



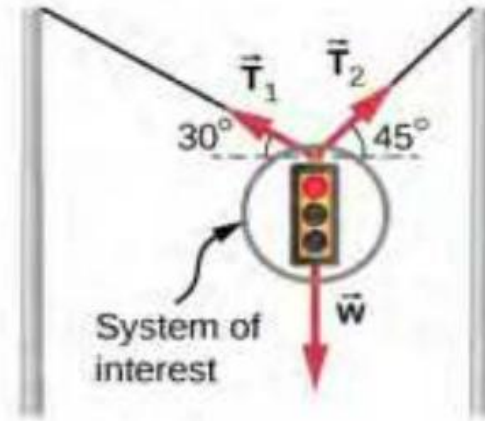
(a)

Just some of the forces are shown here.



(b)

Only forces on the system are shown.

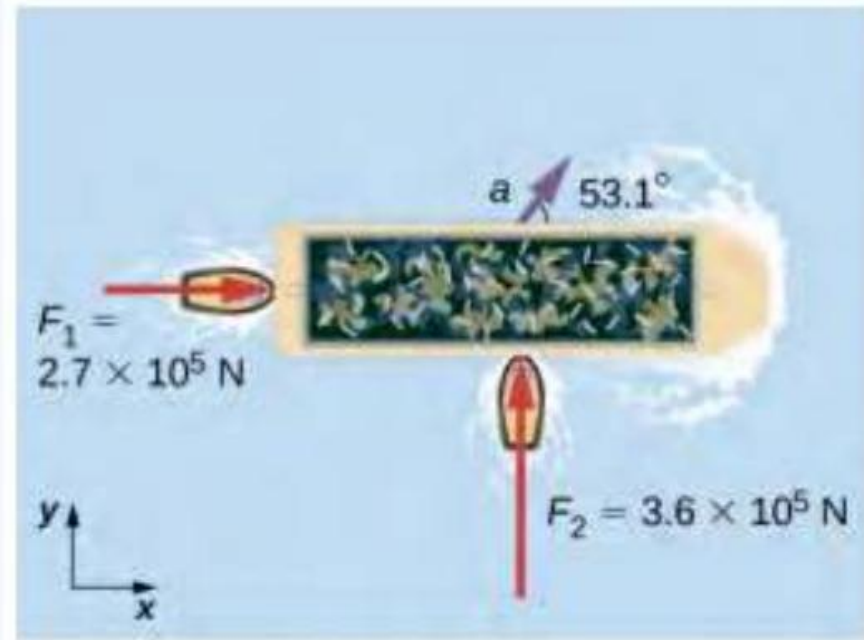


(c)

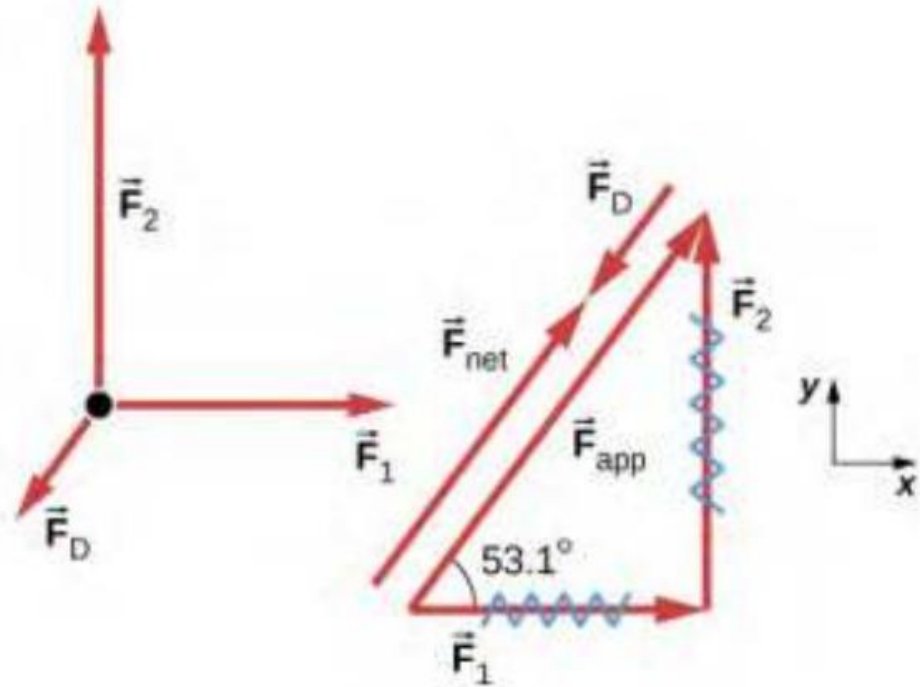


## Example 2

(6.2)



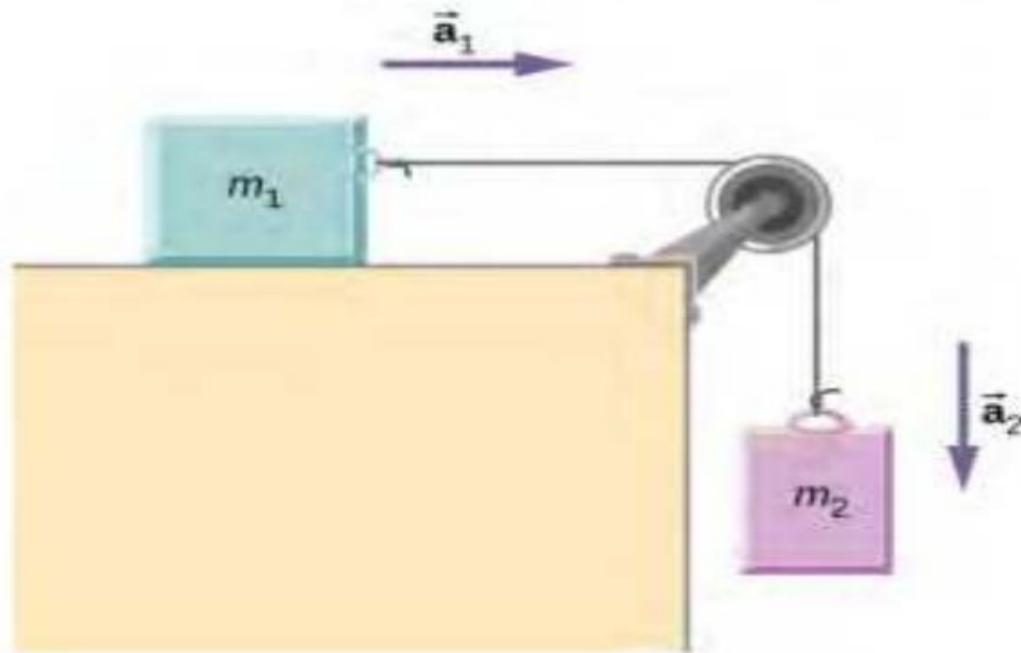
(a)



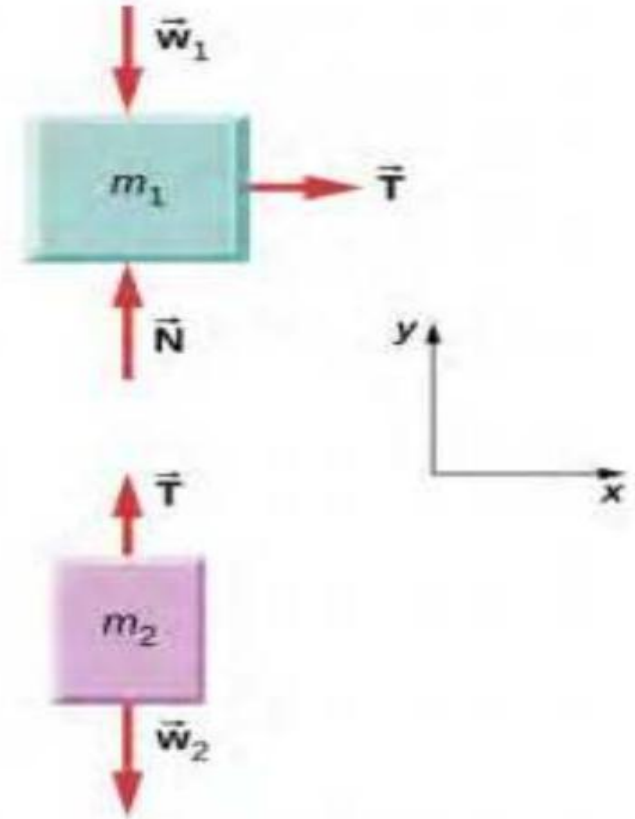
(b)

# Example 3

(6.4)



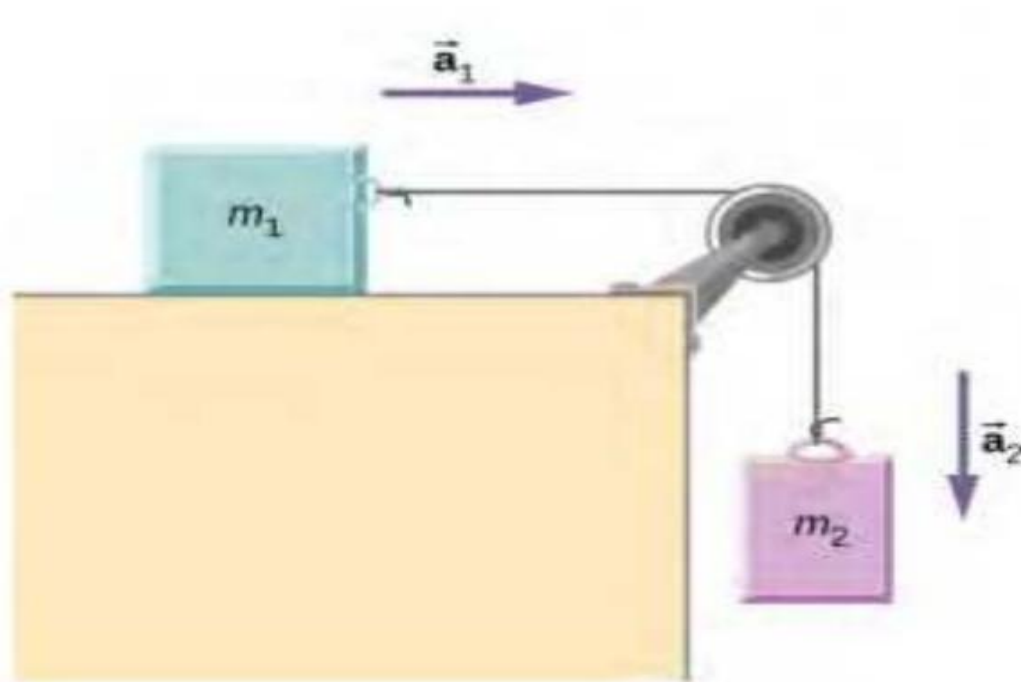
(a)



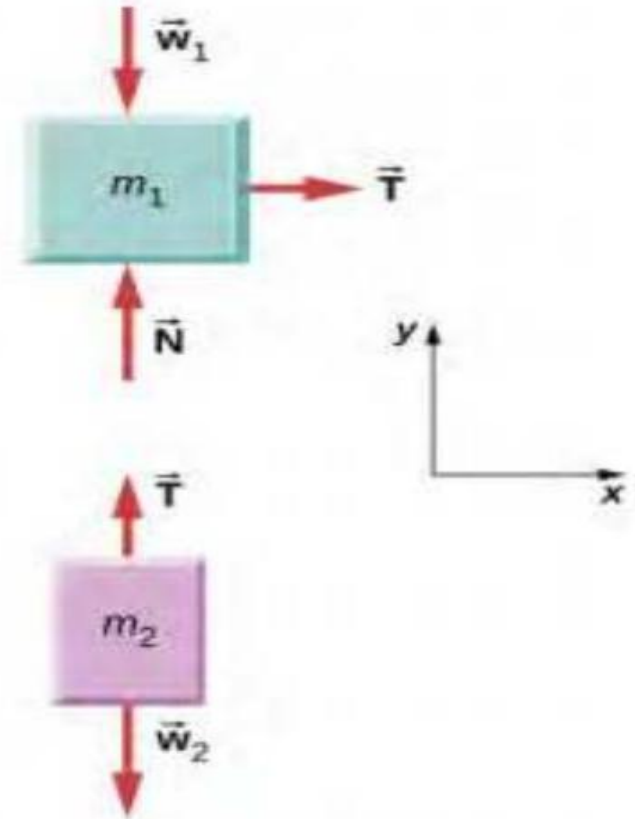
(b)

# Example 4

(6.5)



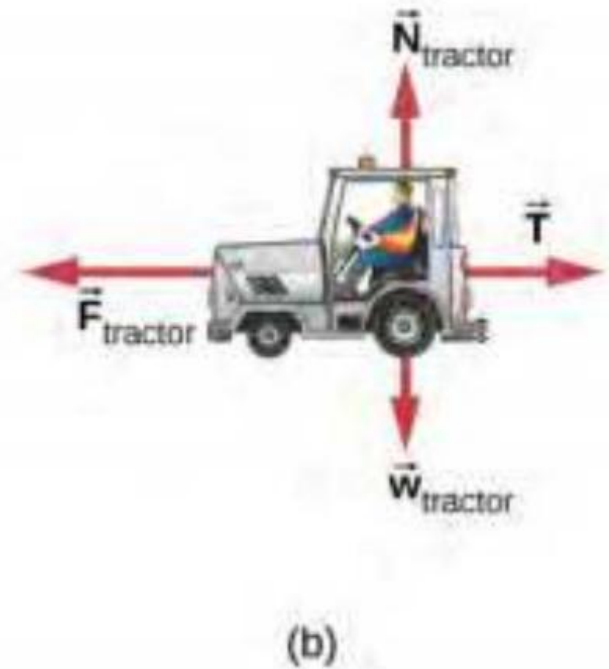
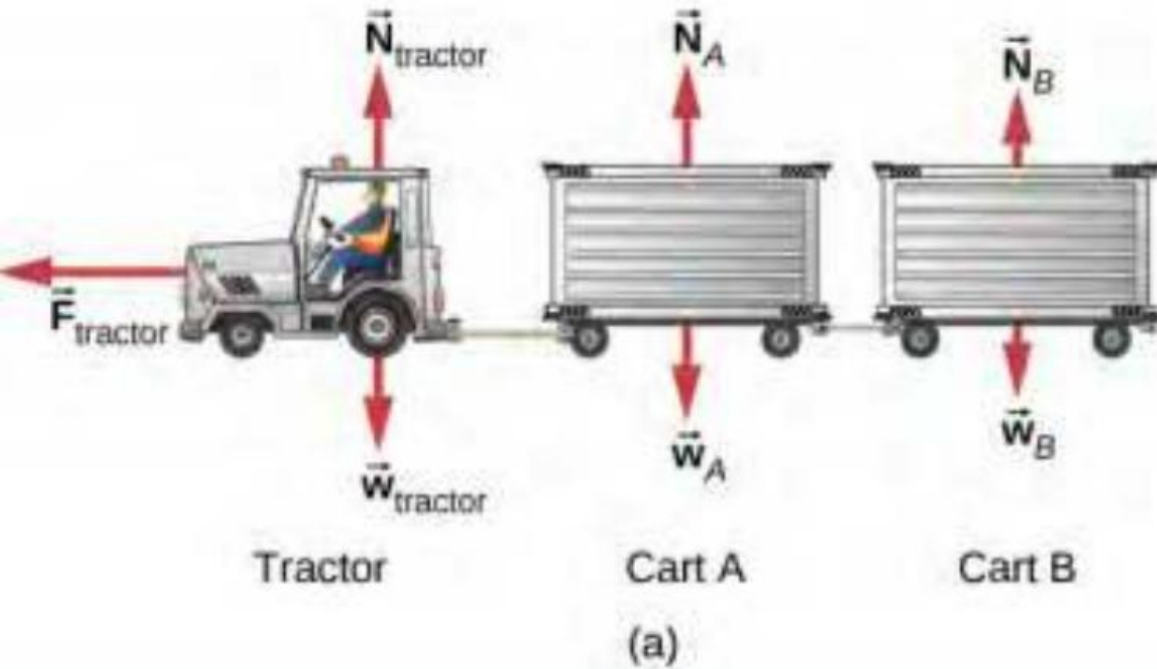
(a)



(b)

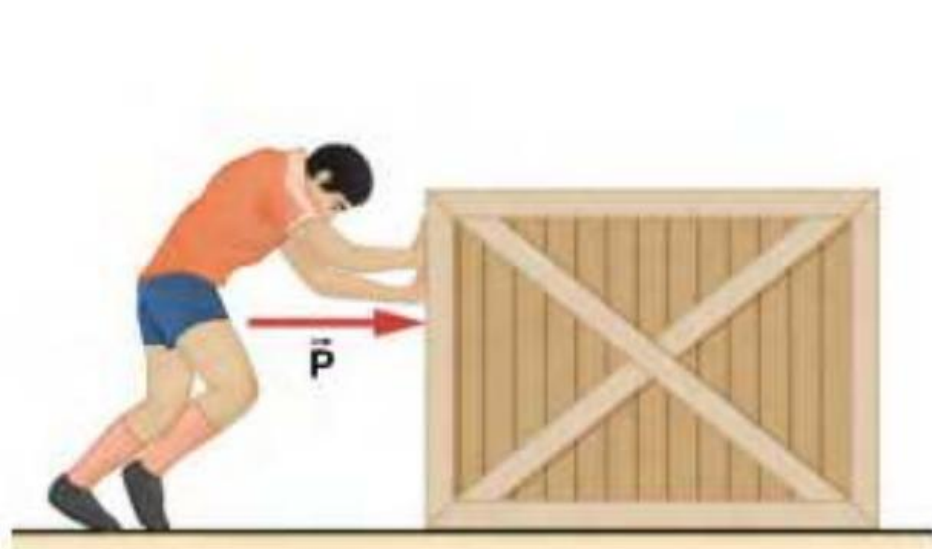
# Example 5

(6.8)

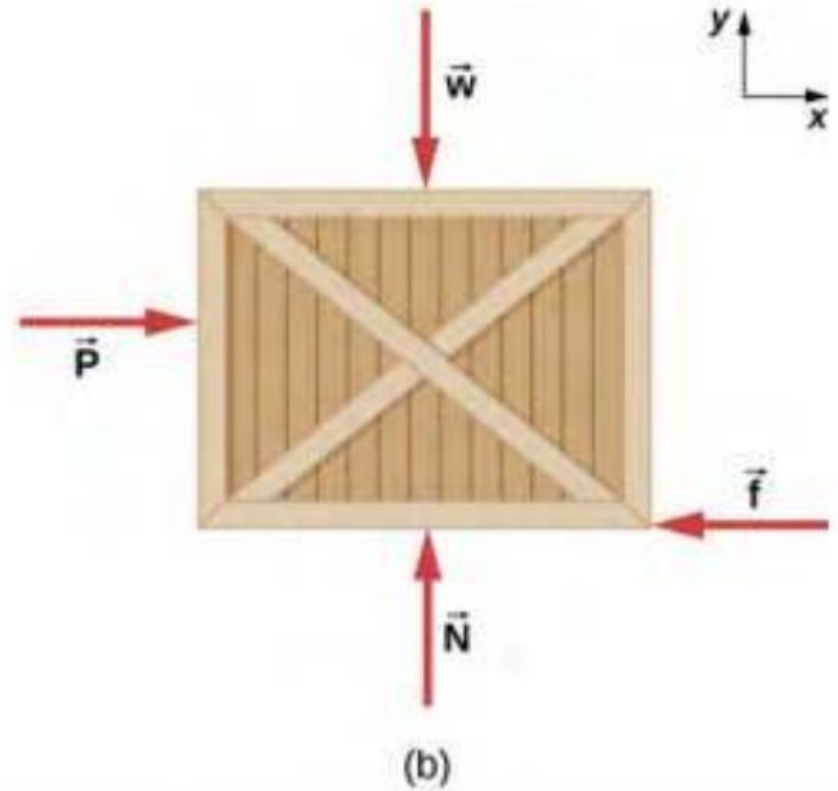


## Example 6

(6.10)



(a)



(b)





Thanks