

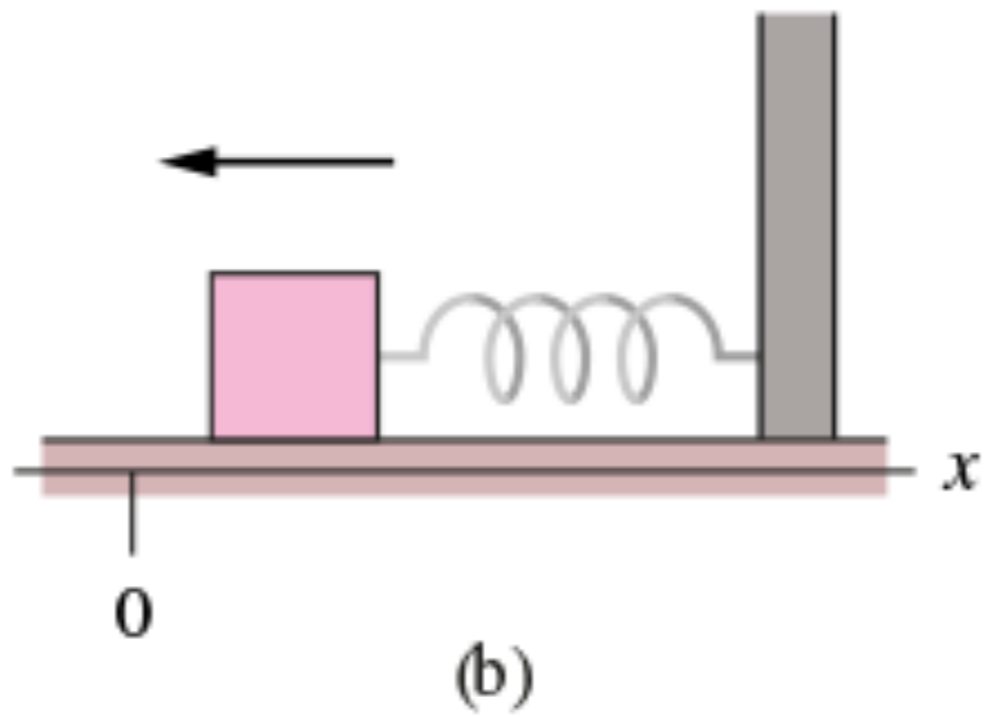
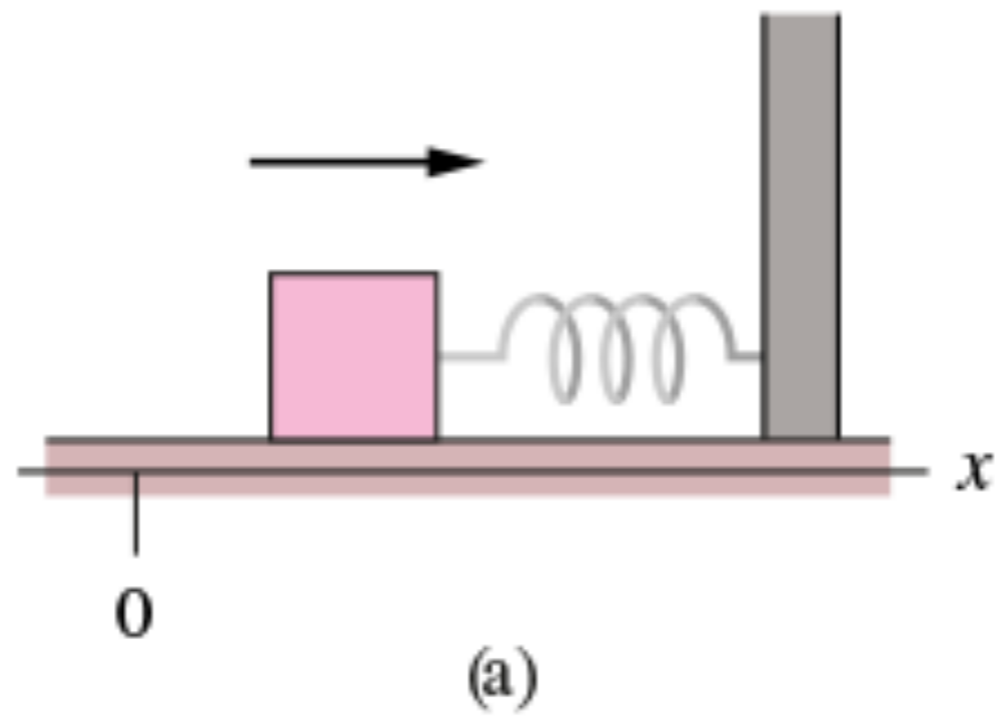


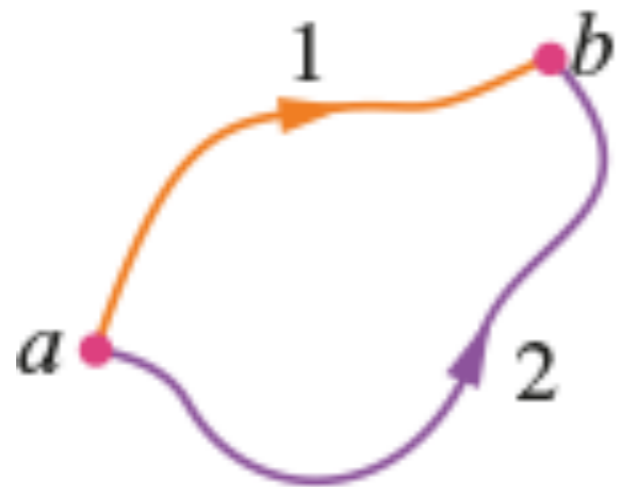
Rough Guides/Greg Roden/Getty Images, Inc.

Lavoro
negativo
svolto
dalla forza
gravitazionale

Lavoro
positivo
svolto
dalla forza
gravitazionale

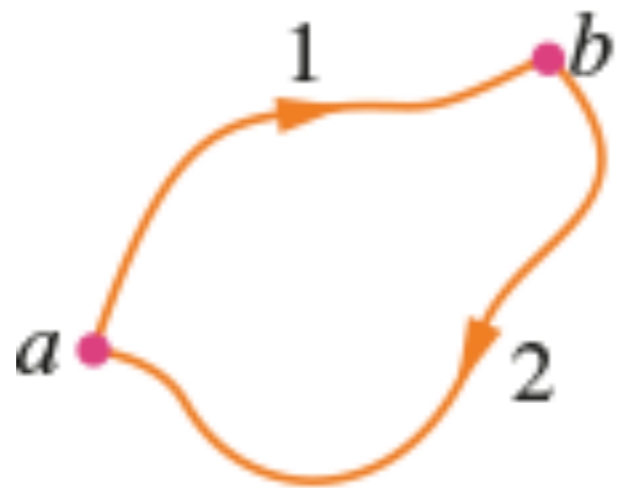






(a)

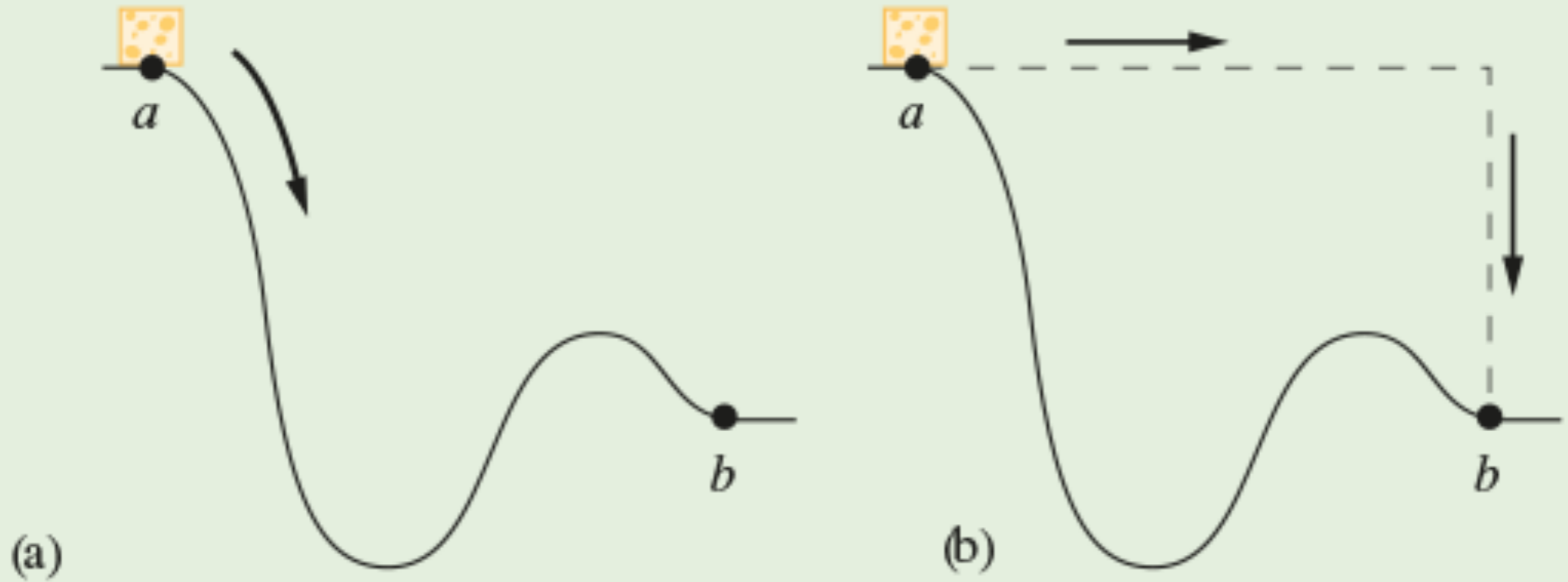
La forza è conservativa.
Per qualunque cammino
il lavoro è sempre lo stesso

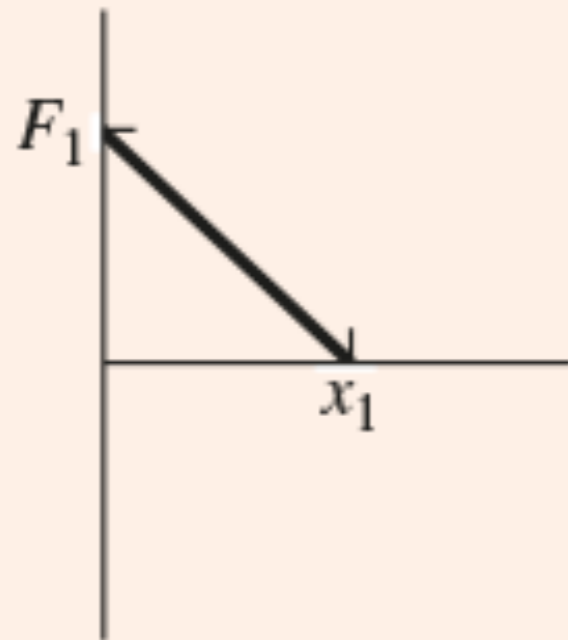


(b)

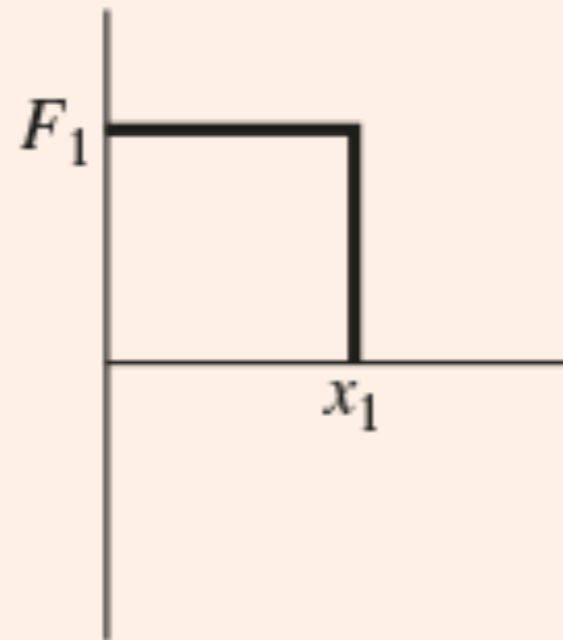
Il lavoro lungo
un cammino chiuso
è zero

La forza gravitazionale è conservativa.
Il lavoro è indipendente dal cammino
percorso tra due punti

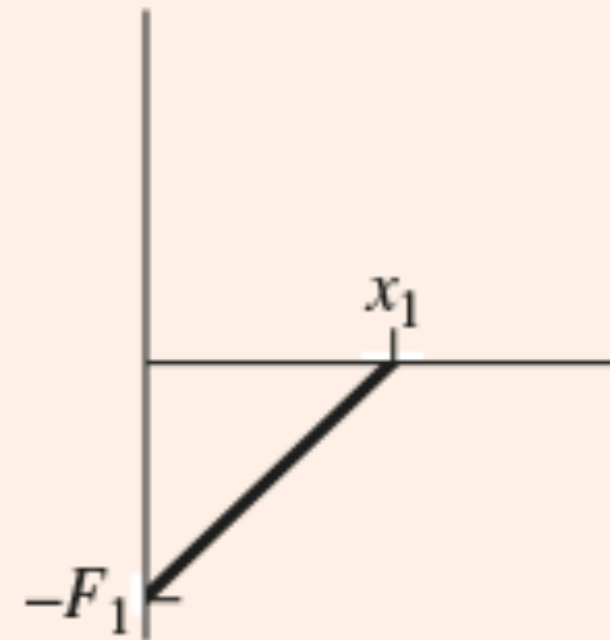




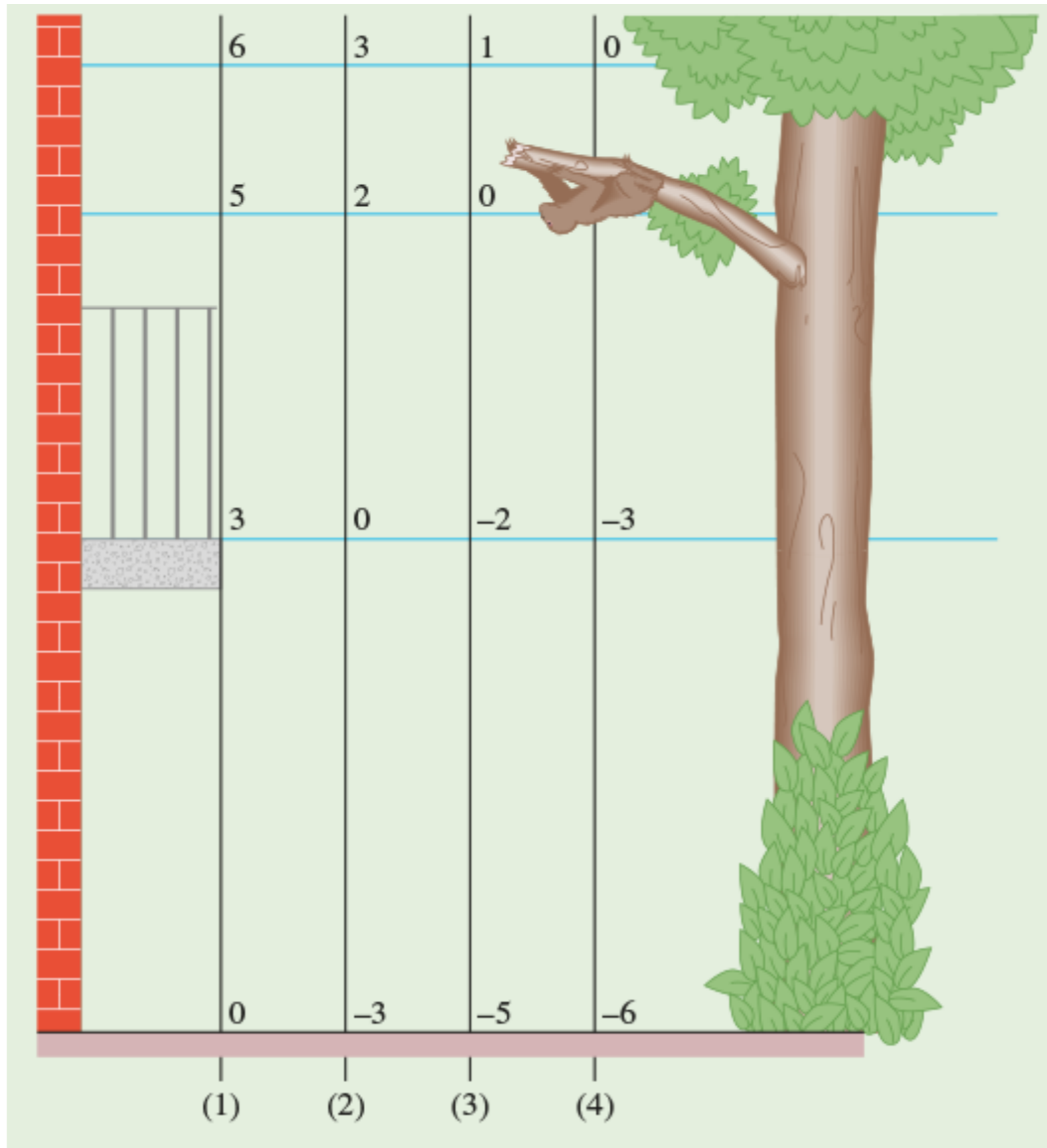
(1)



(2)

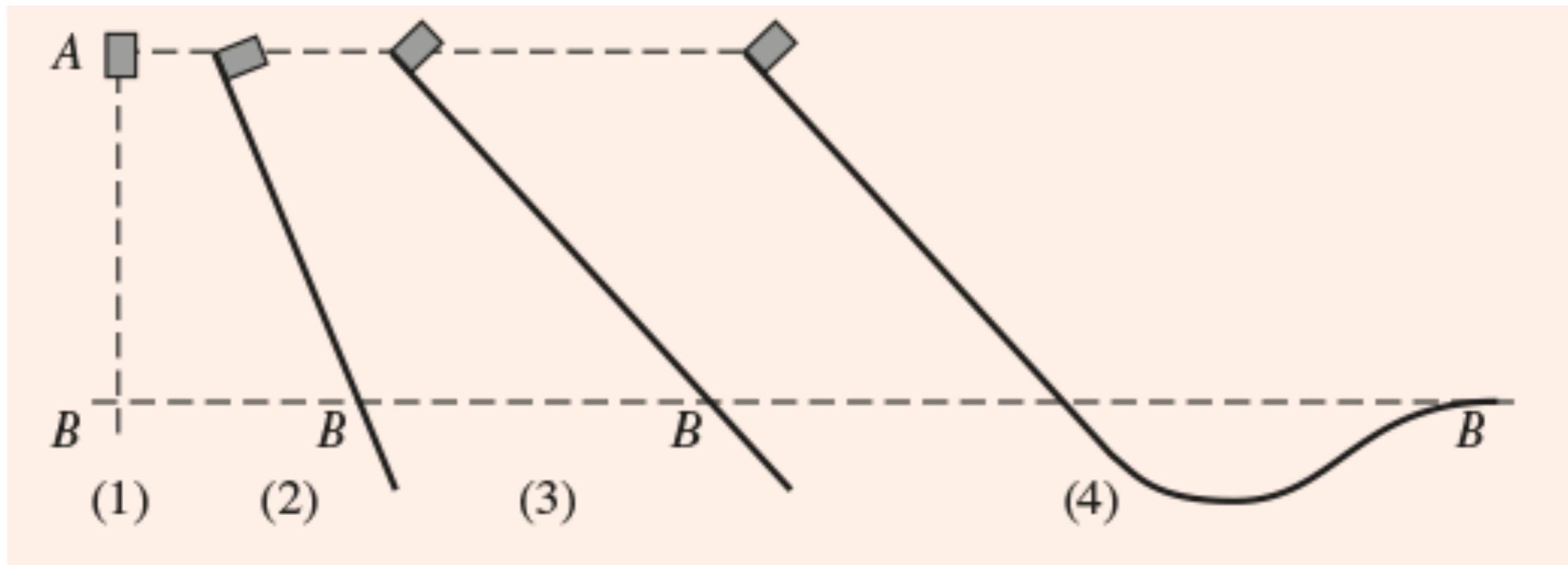


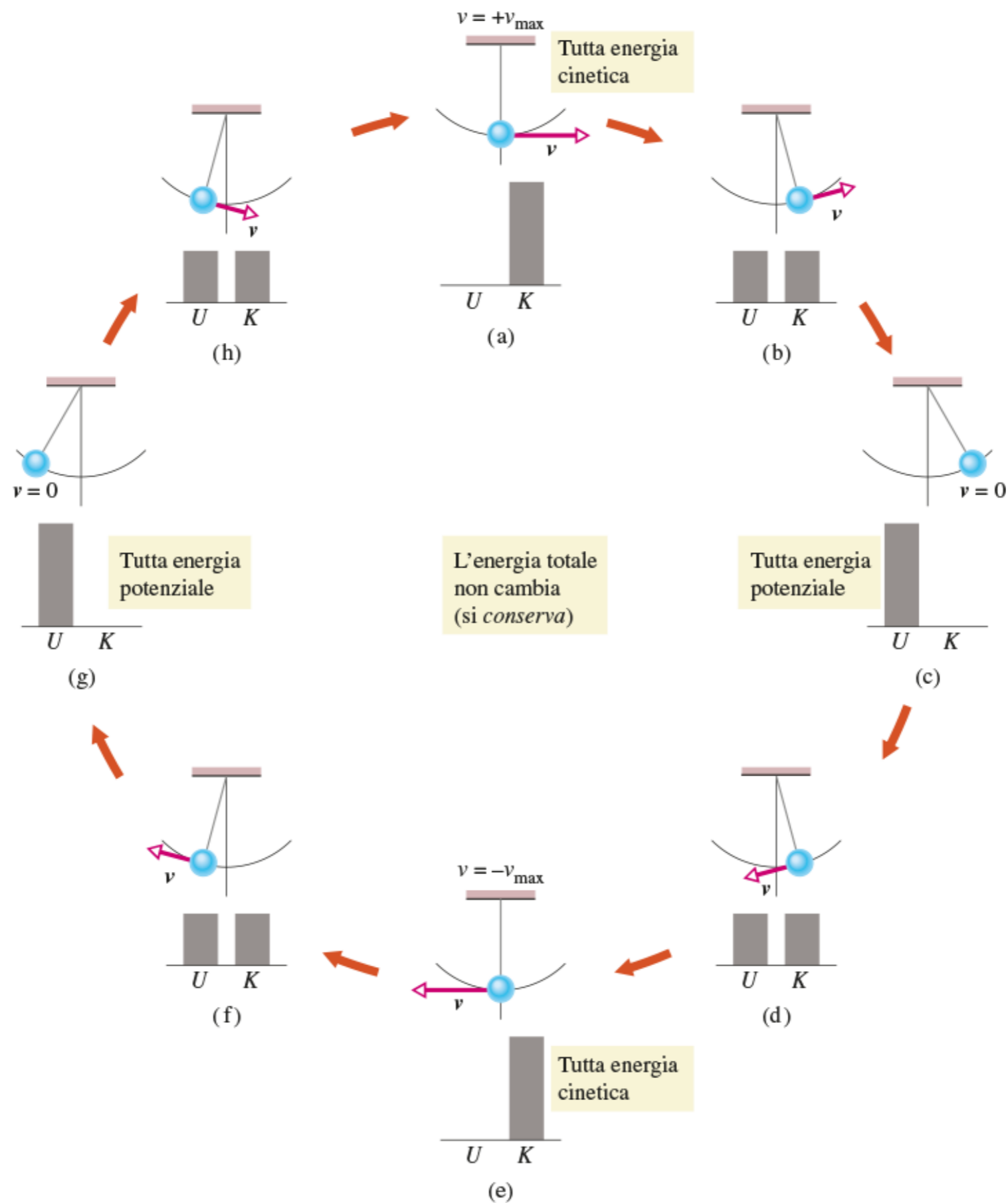
(3)



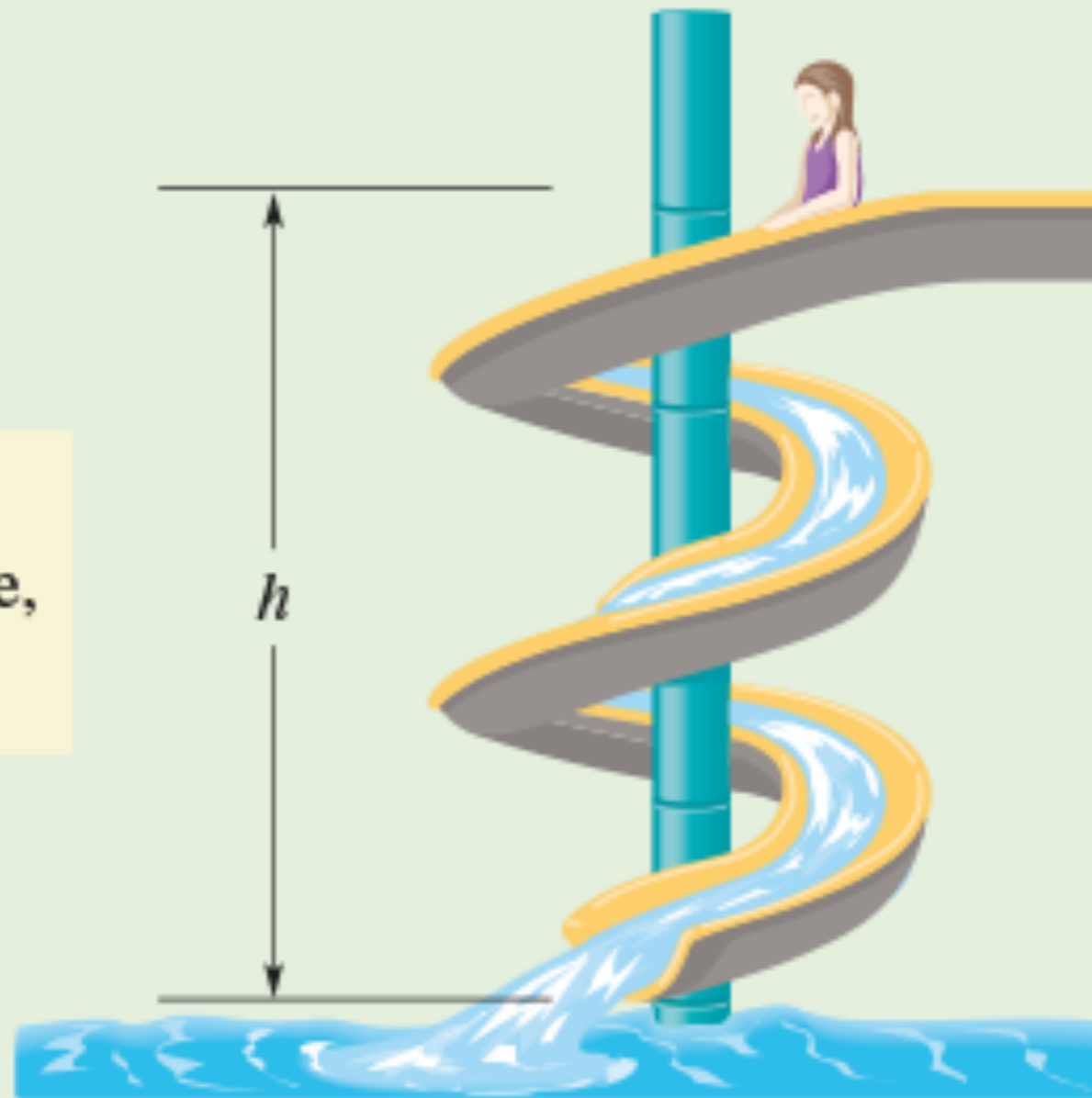


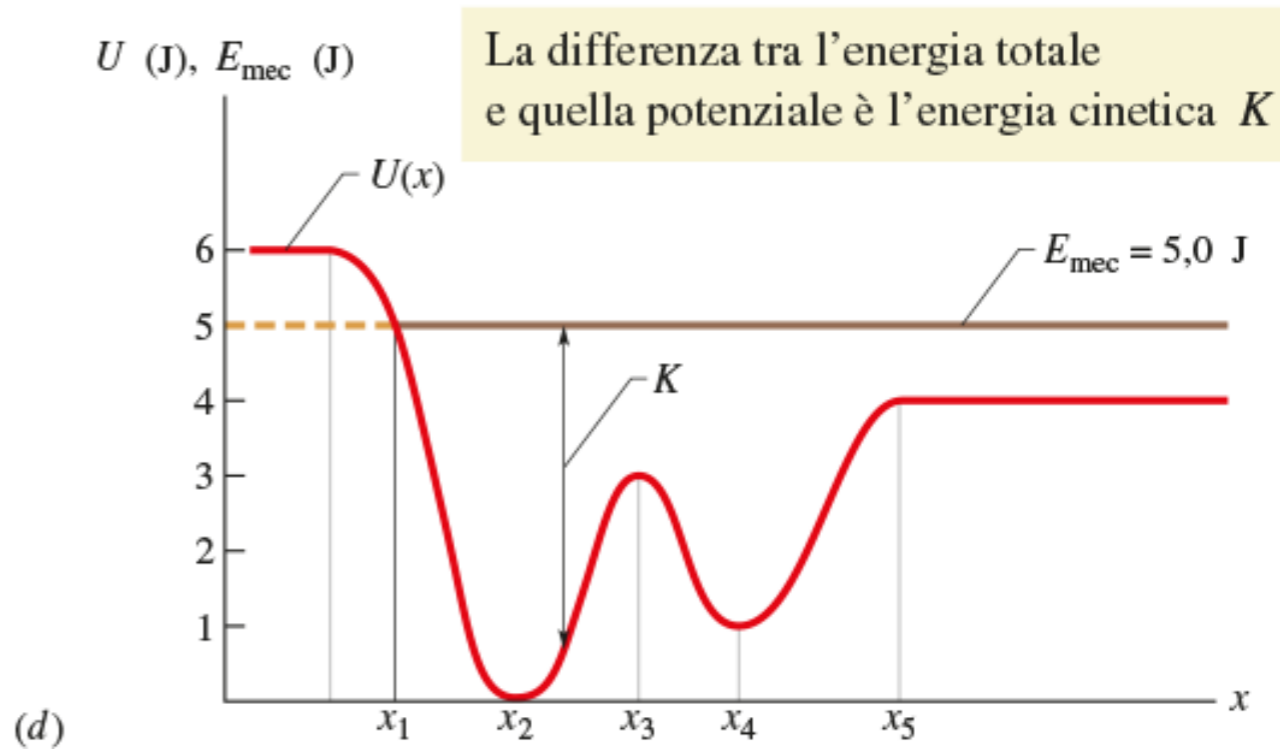
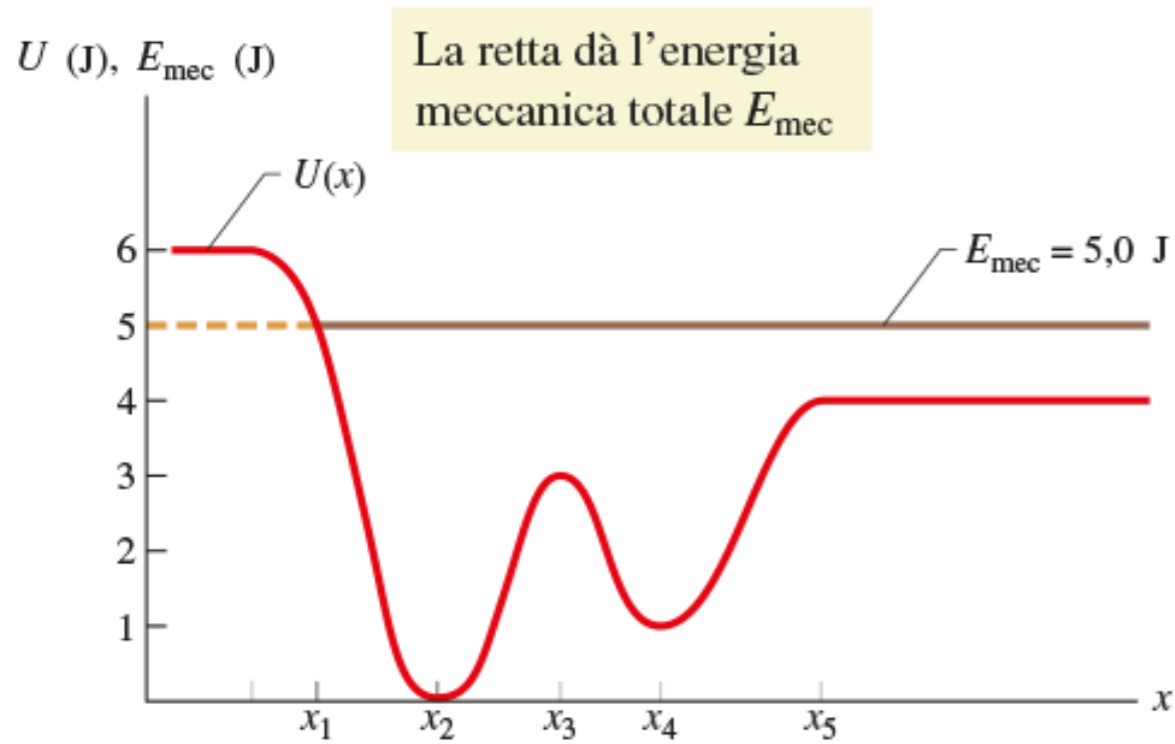
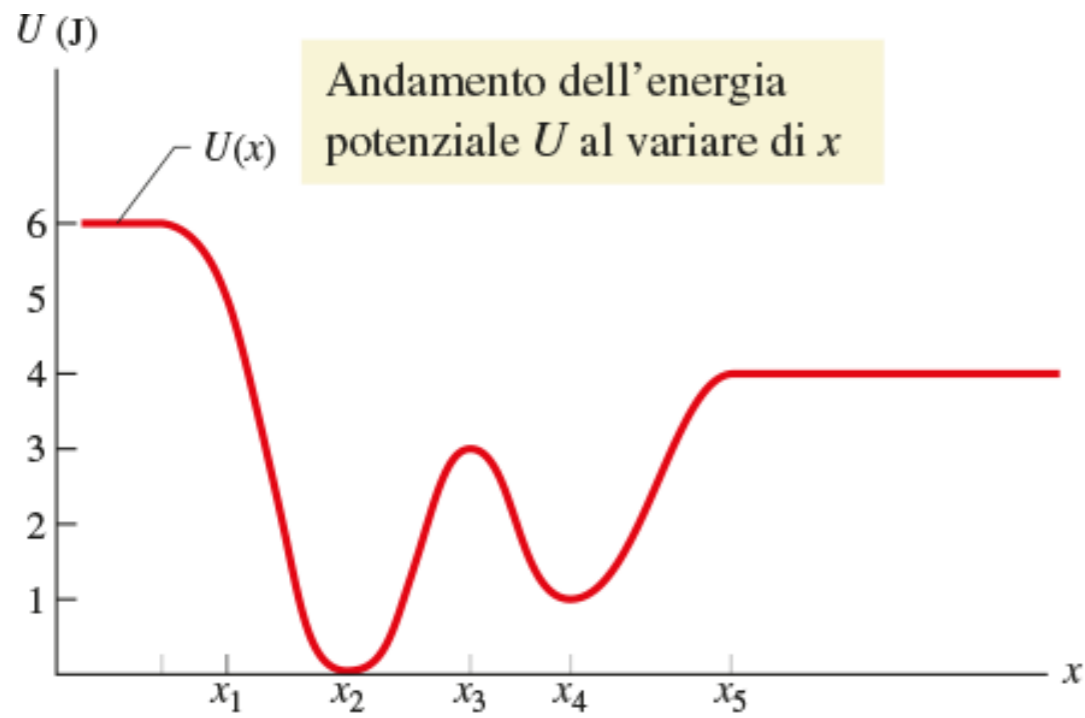
©AP/Wide World Photos

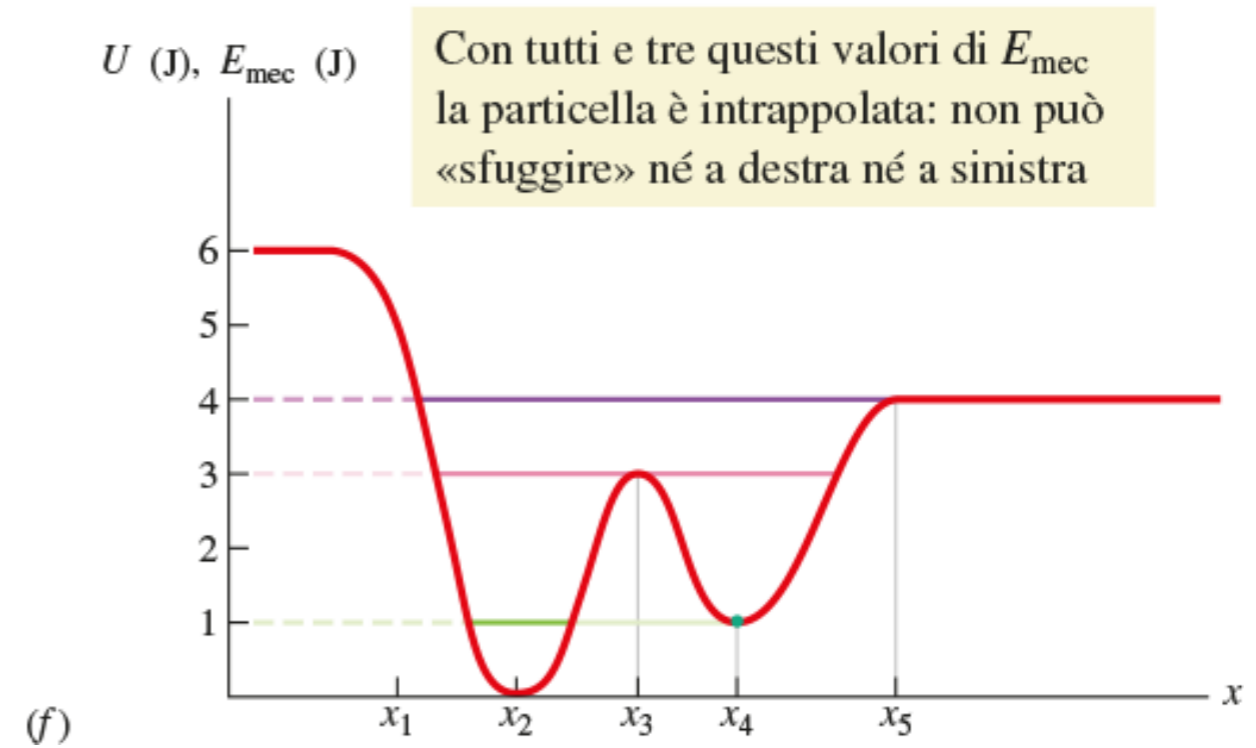
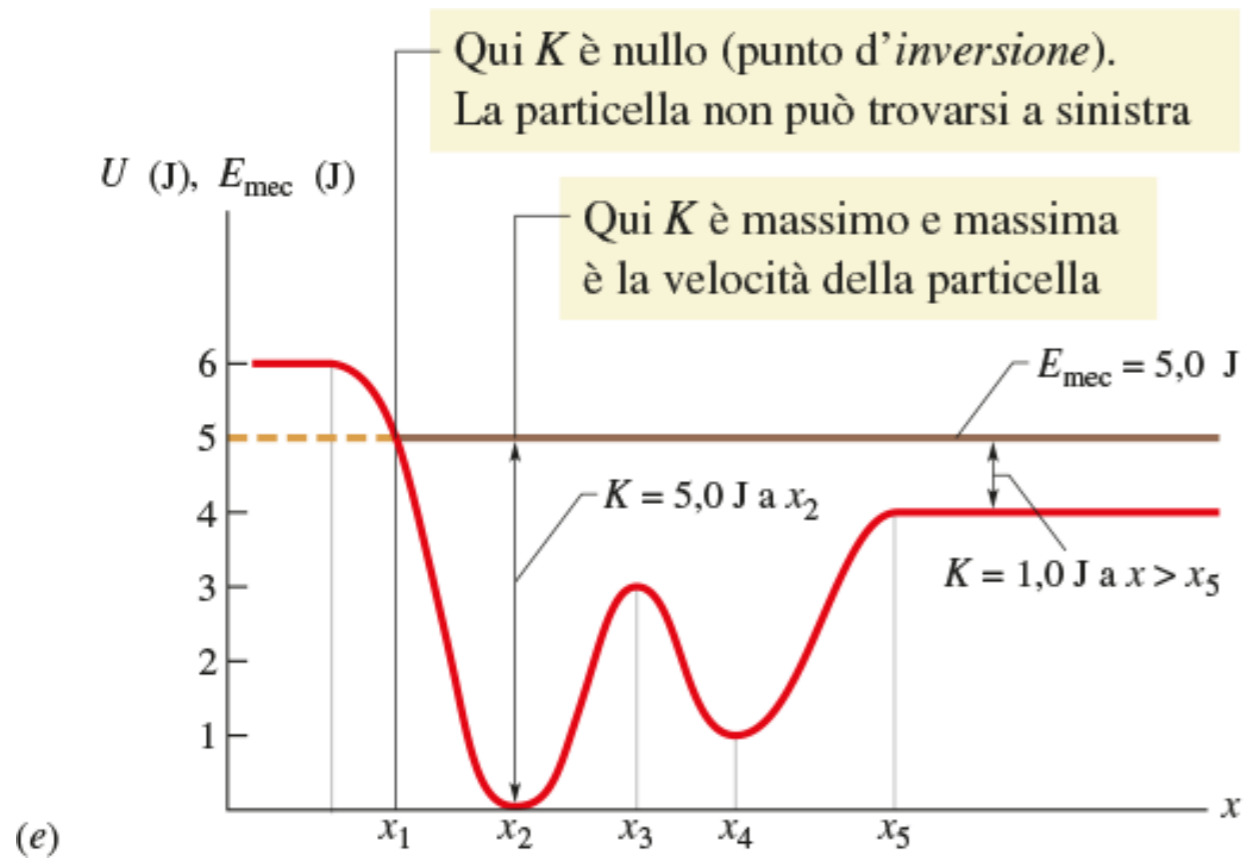


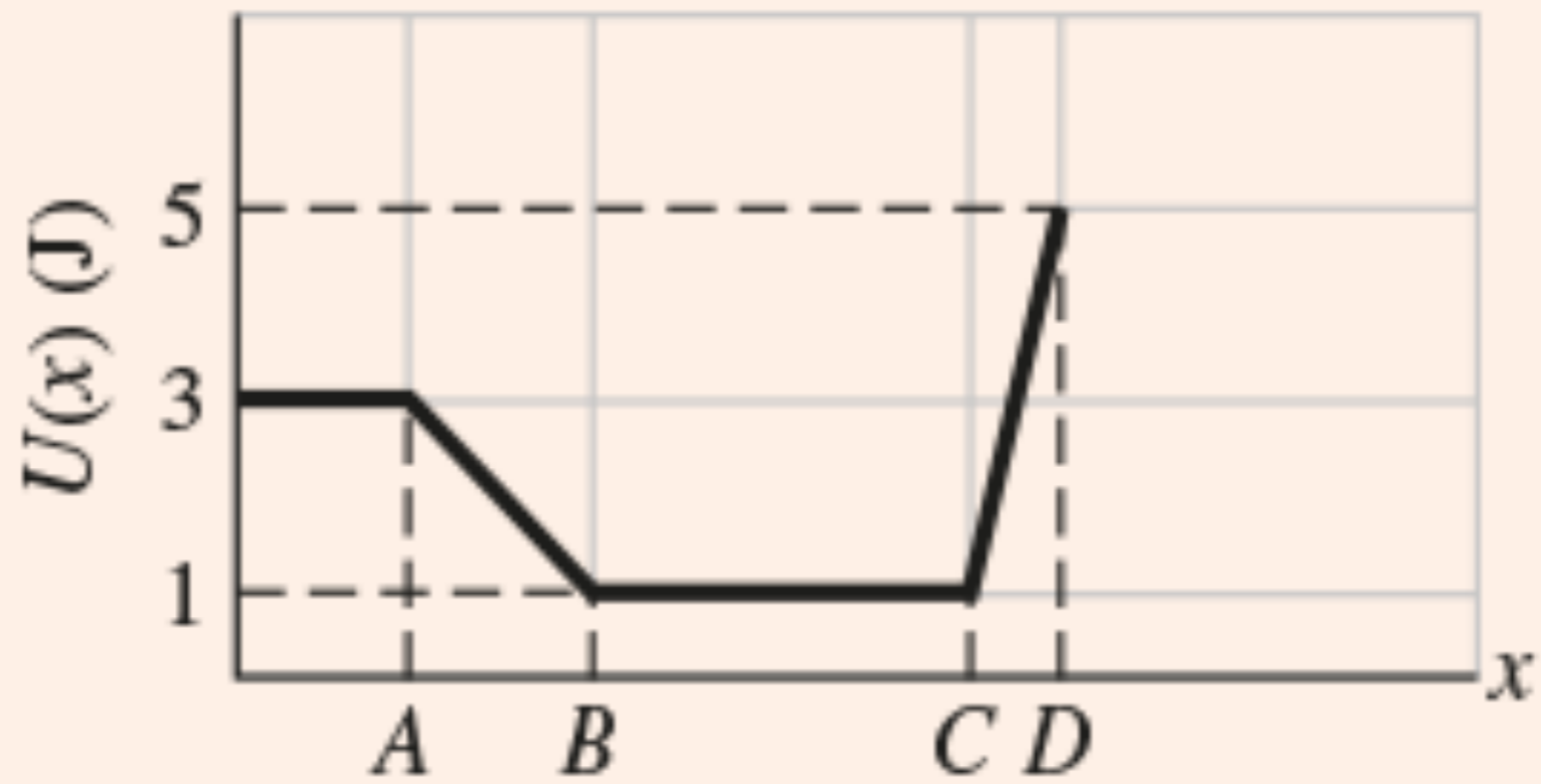


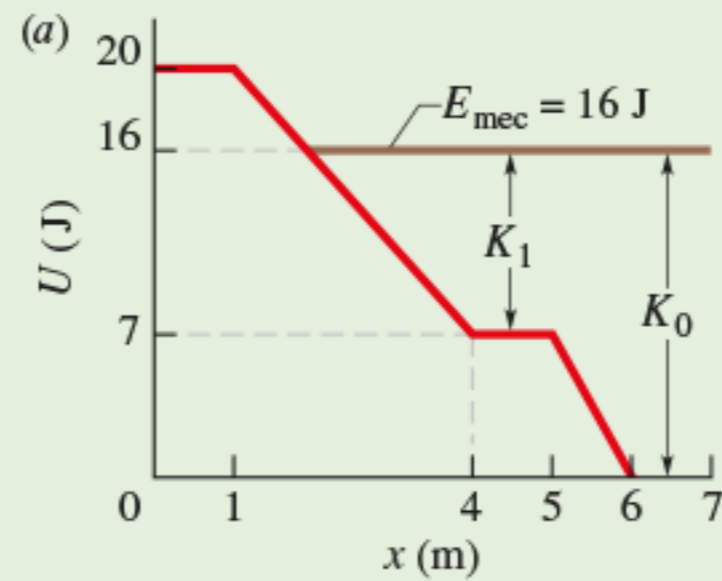
L'energia meccanica
totale è sempre uguale,
in cima e in fondo



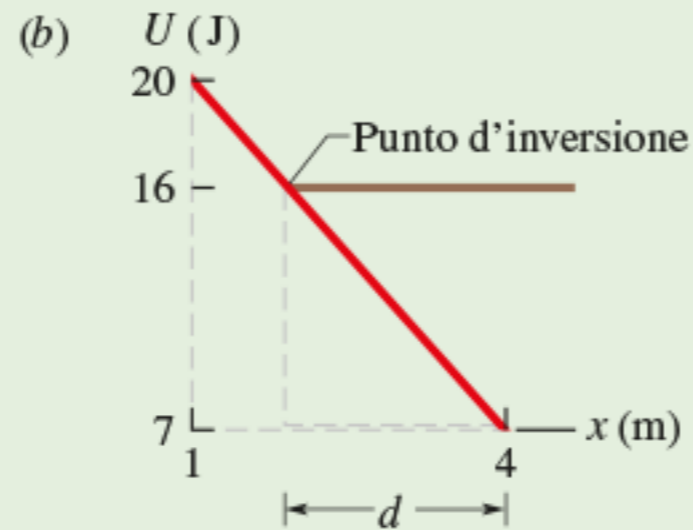




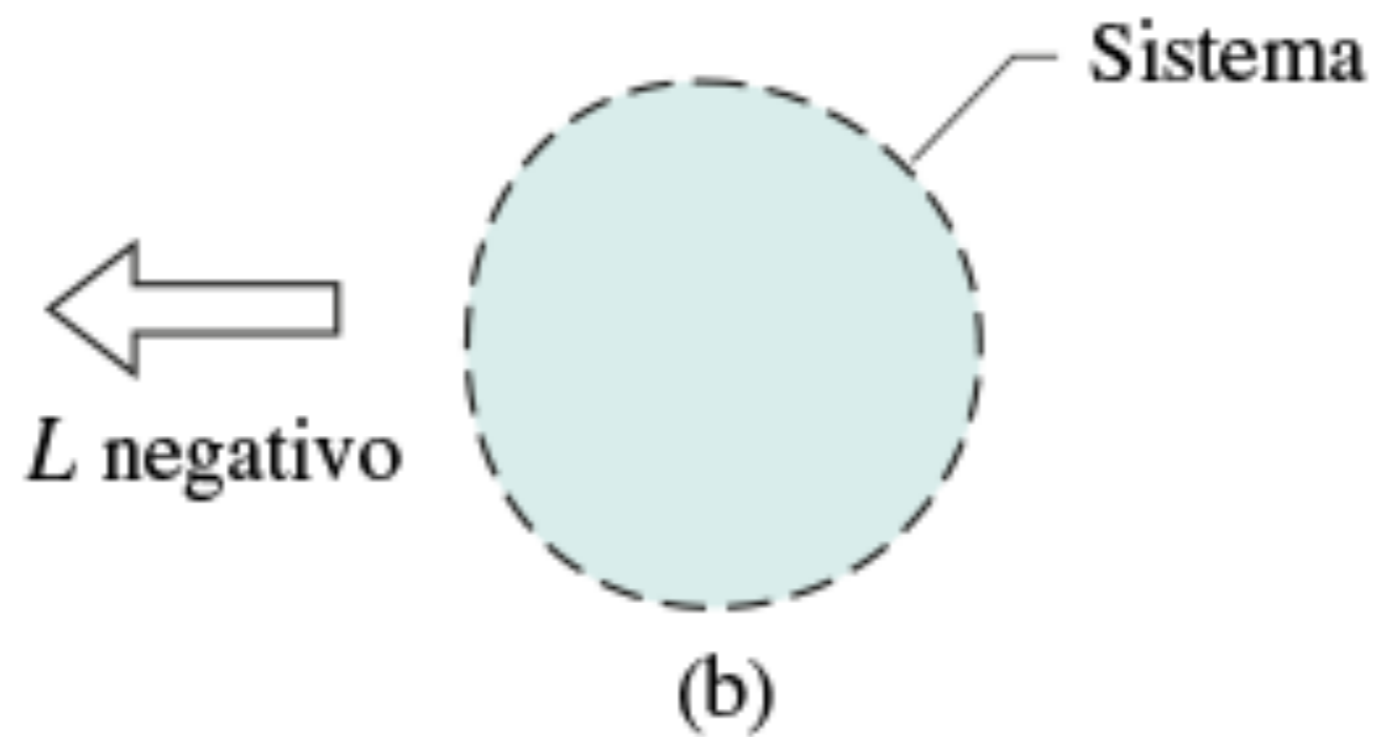
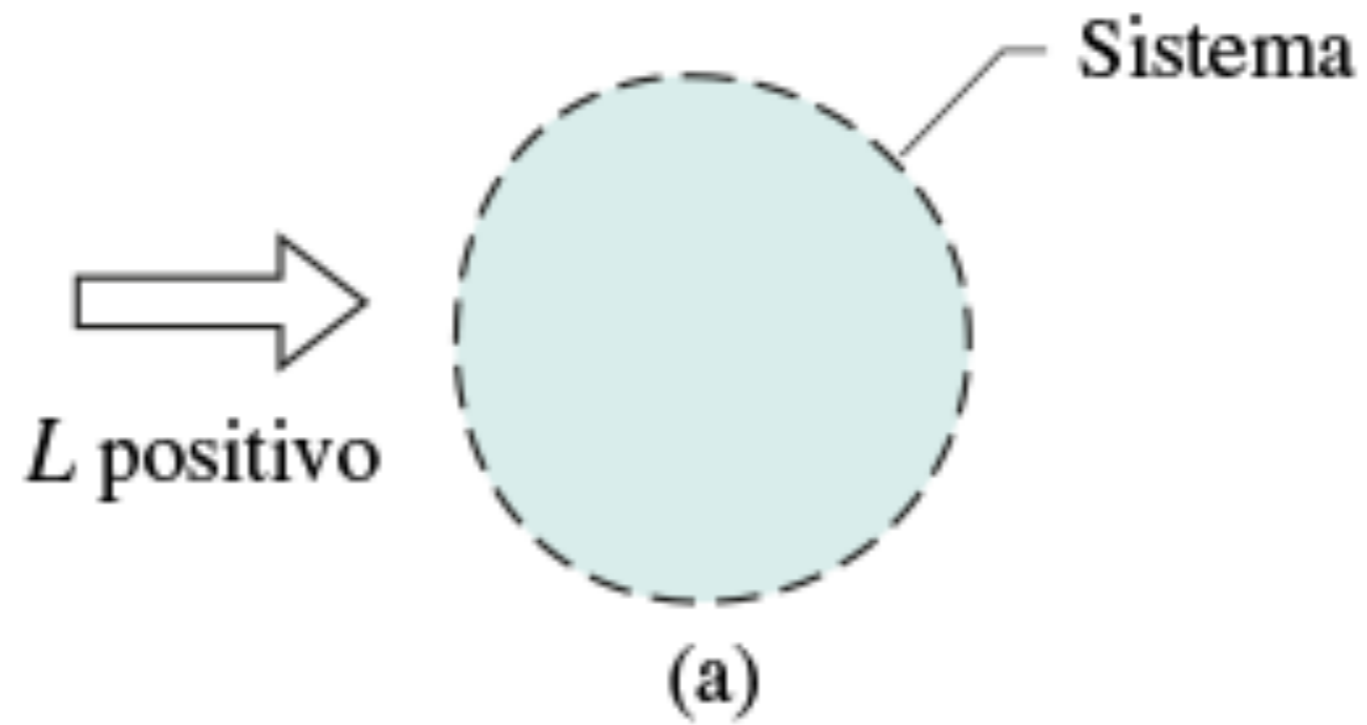




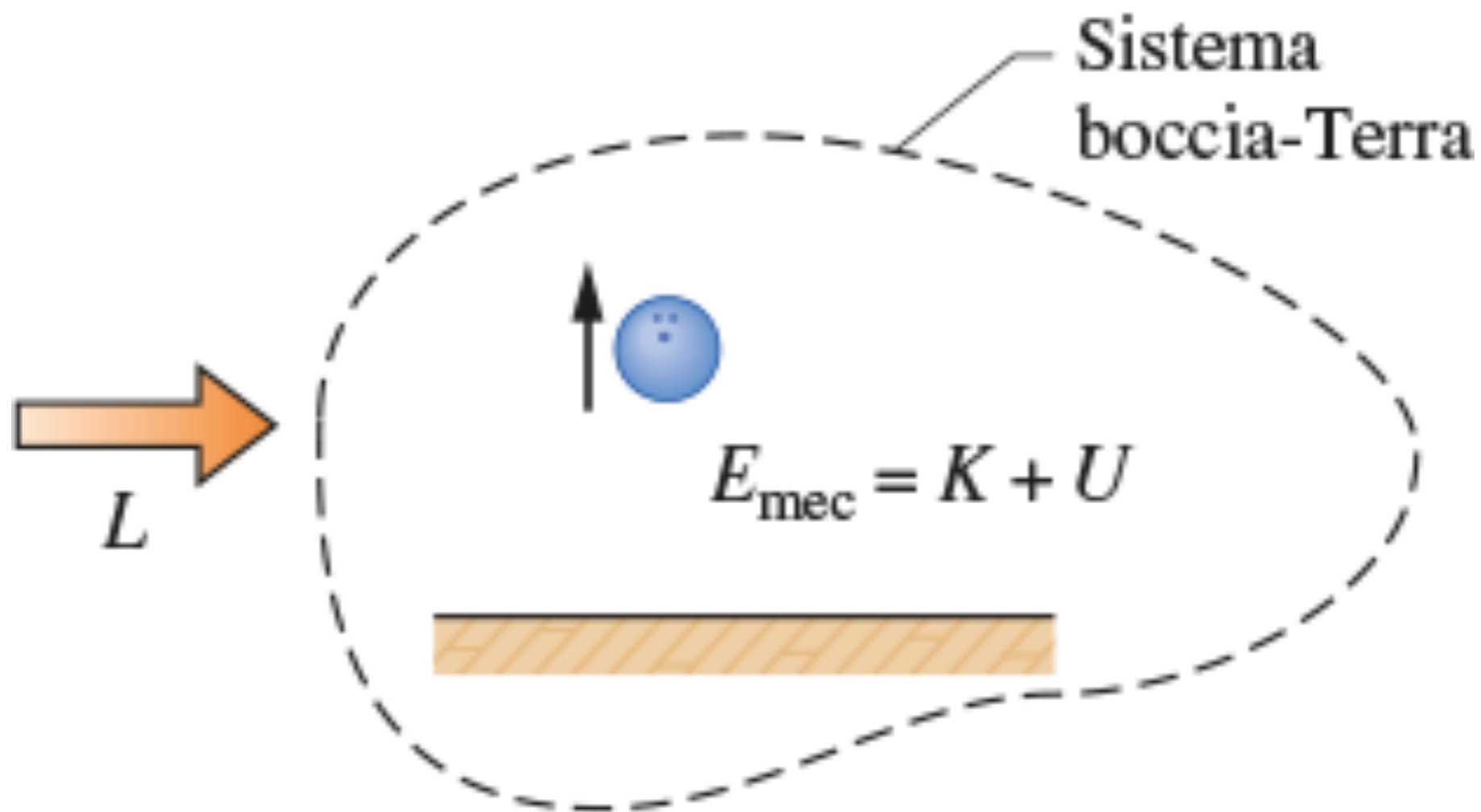
L'energia cinetica è la differenza tra l'energia totale e l'energia potenziale



Al punto d'inversione l'energia cinetica è nulla (la particella è ferma)

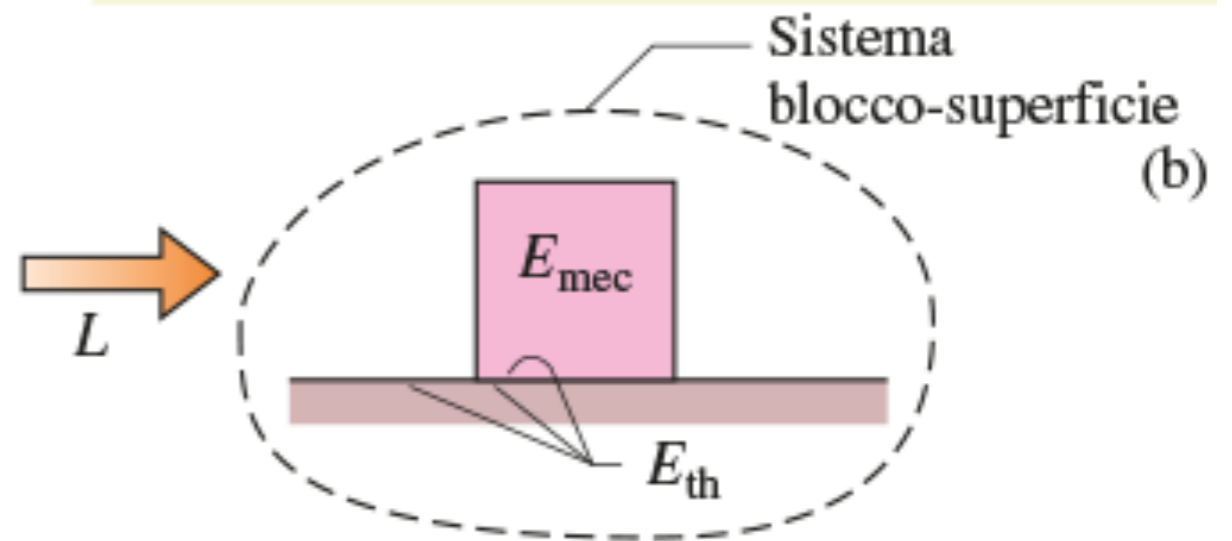
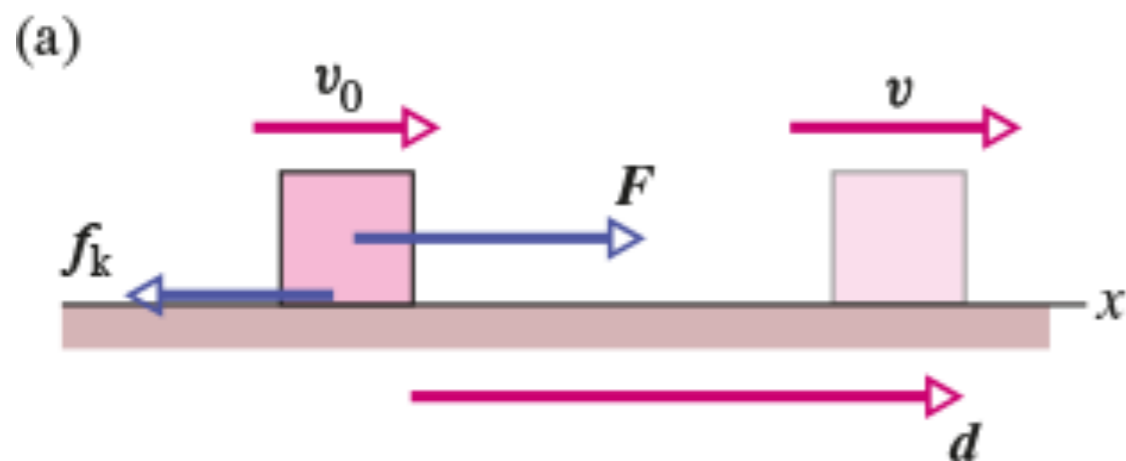


La forza di sollevamento conferisce energia cinetica ed energia potenziale



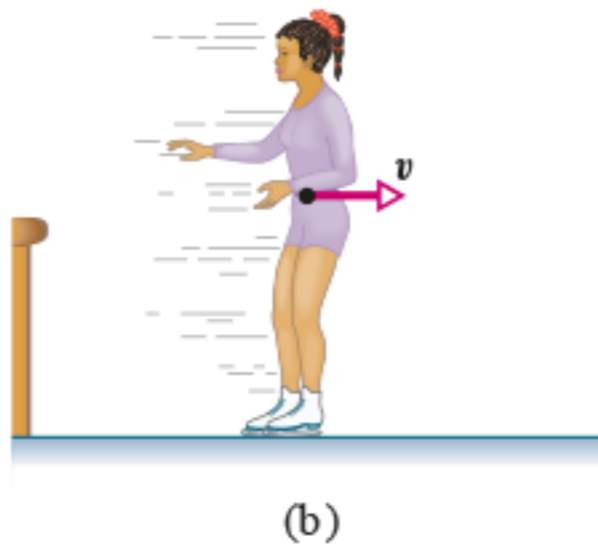
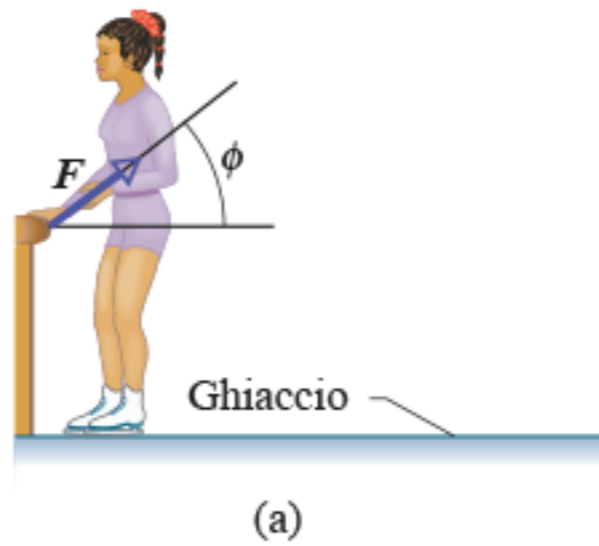
La forza applicata fornisce energia.
La forza d'attrito ne converte una parte
in energia termica

Dunque il lavoro svolto dalla forza applicata
finisce parte in energia cinetica, parte
in energia termica

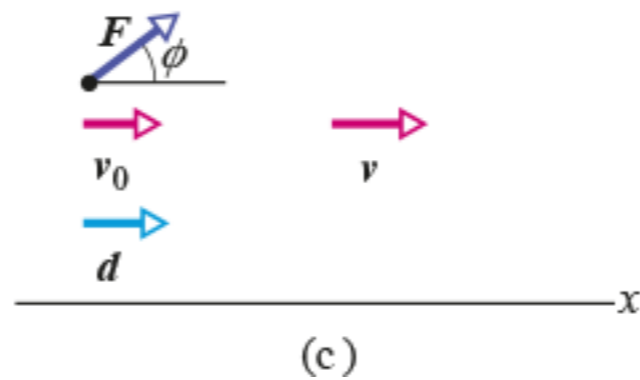


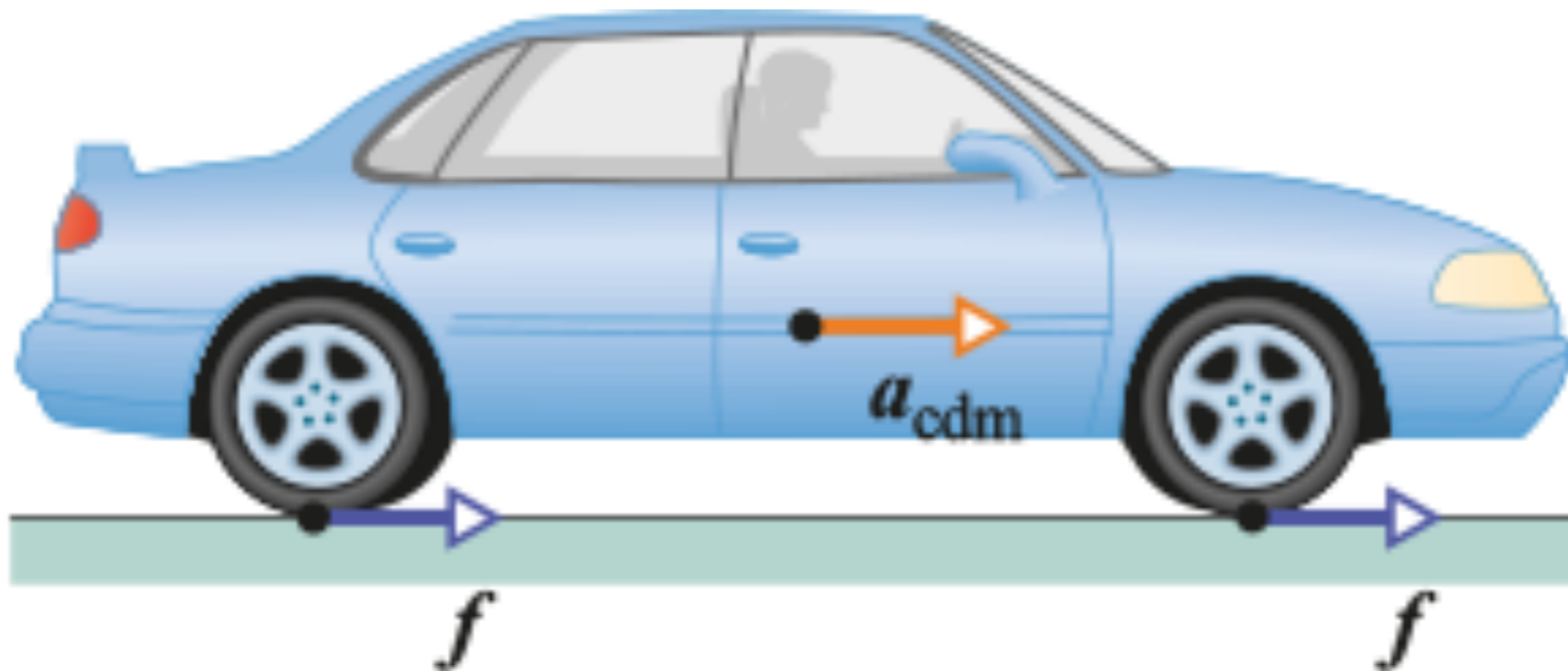


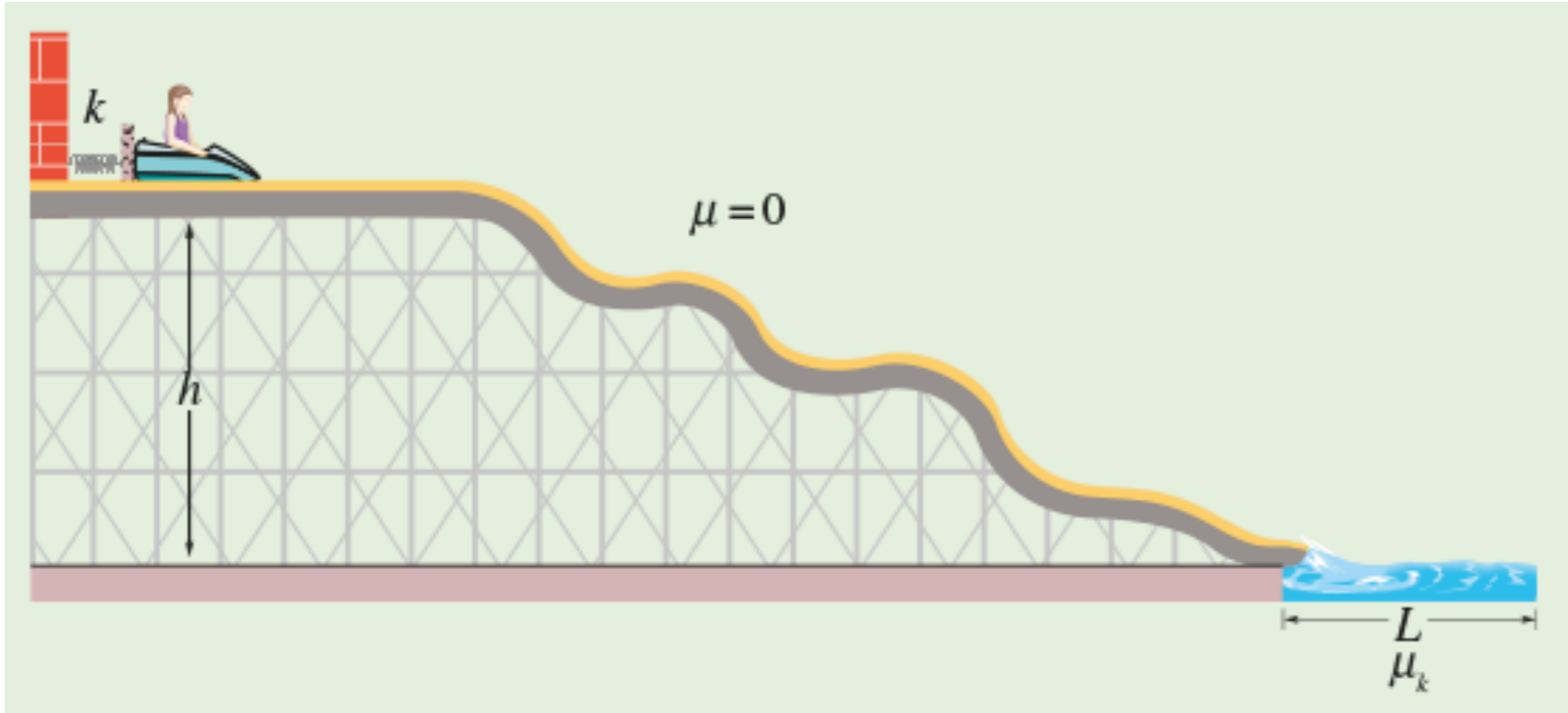
Tyler Stableford/The Image Bank/Getty Images

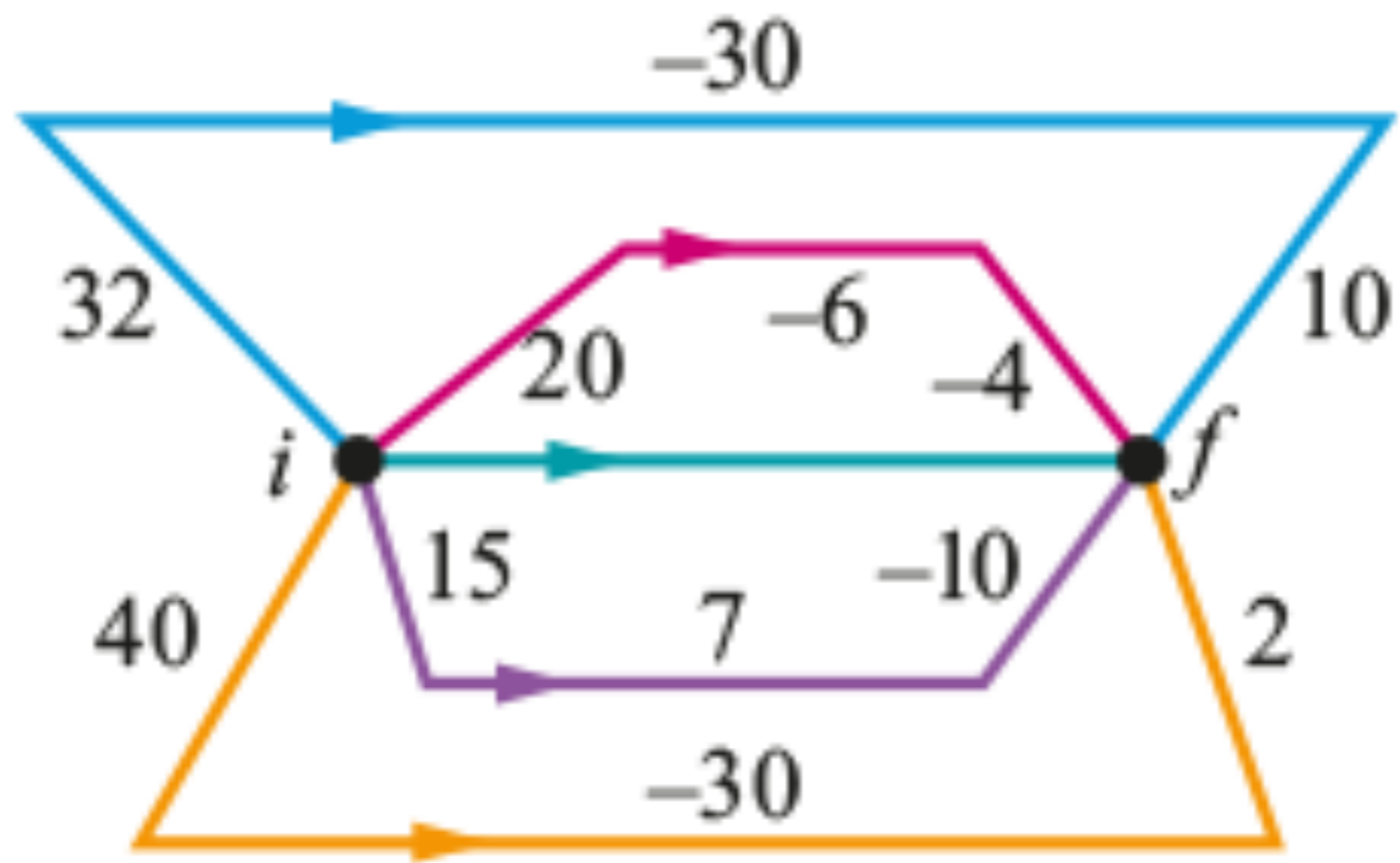


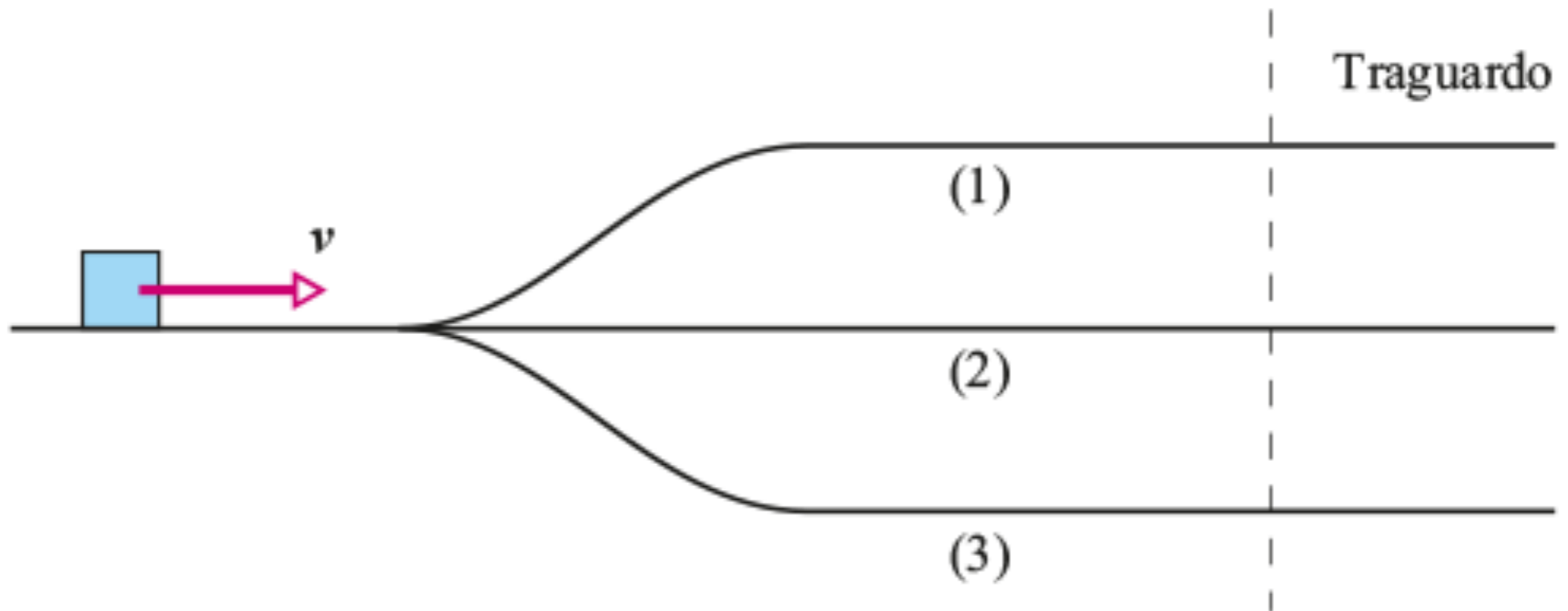
La spinta contro il parapetto trasforma energia interna in energia cinetica

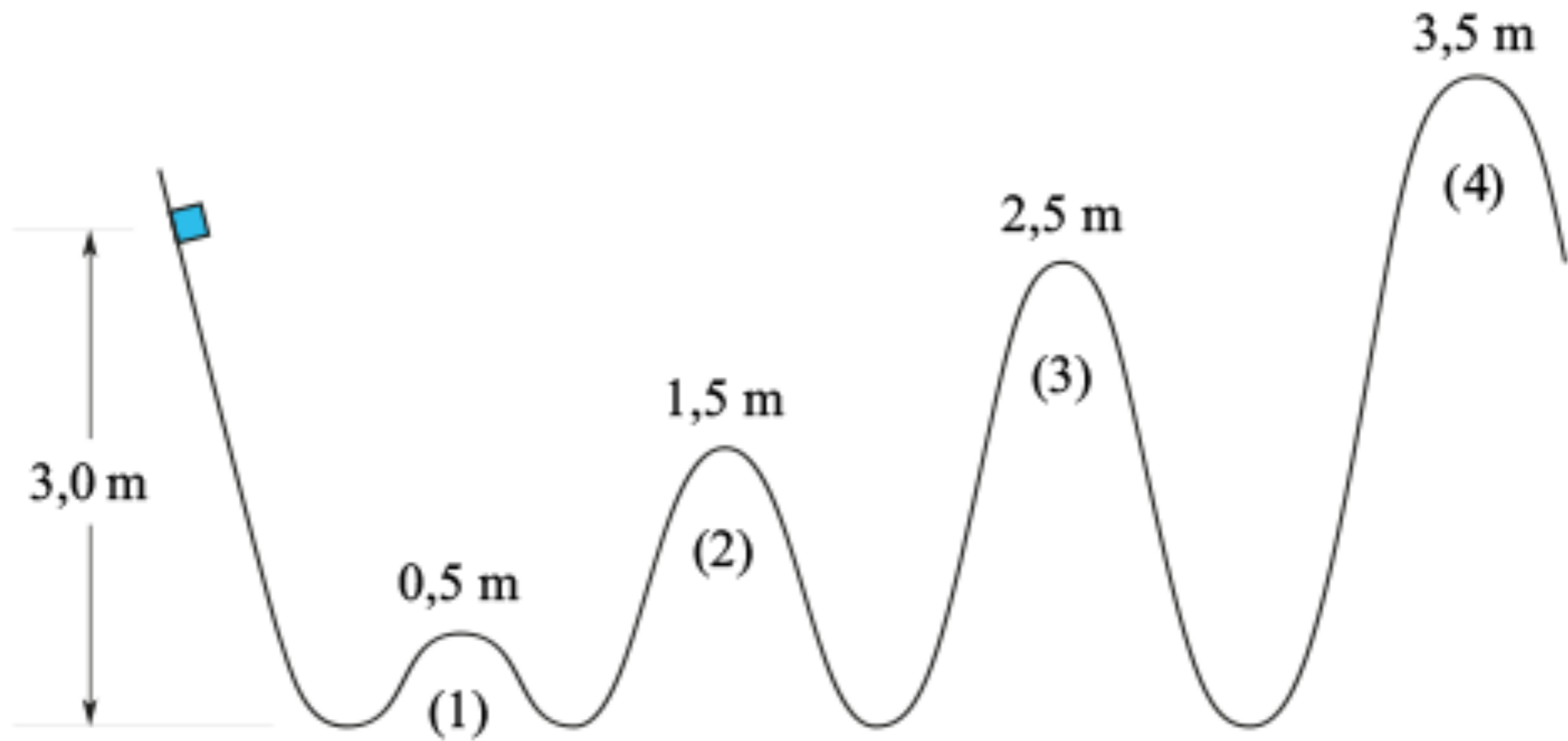


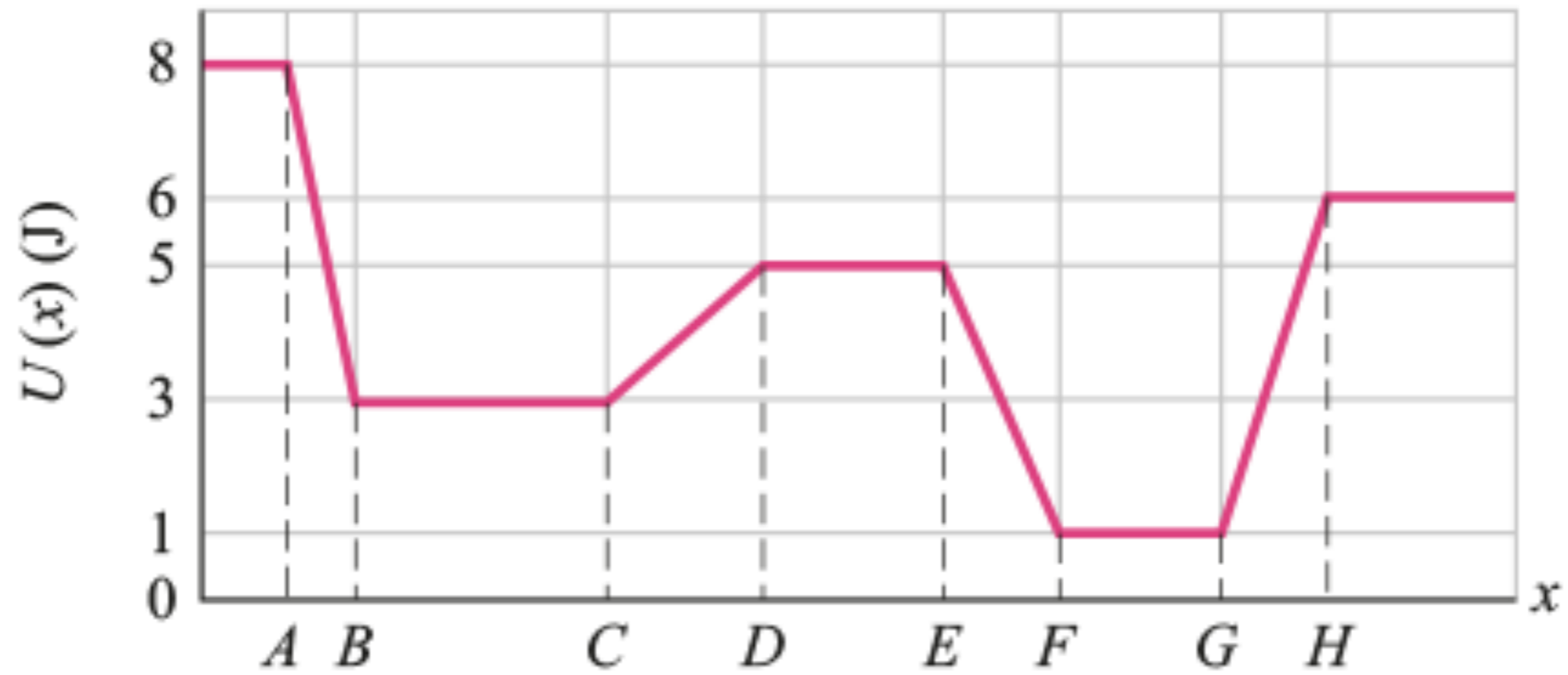


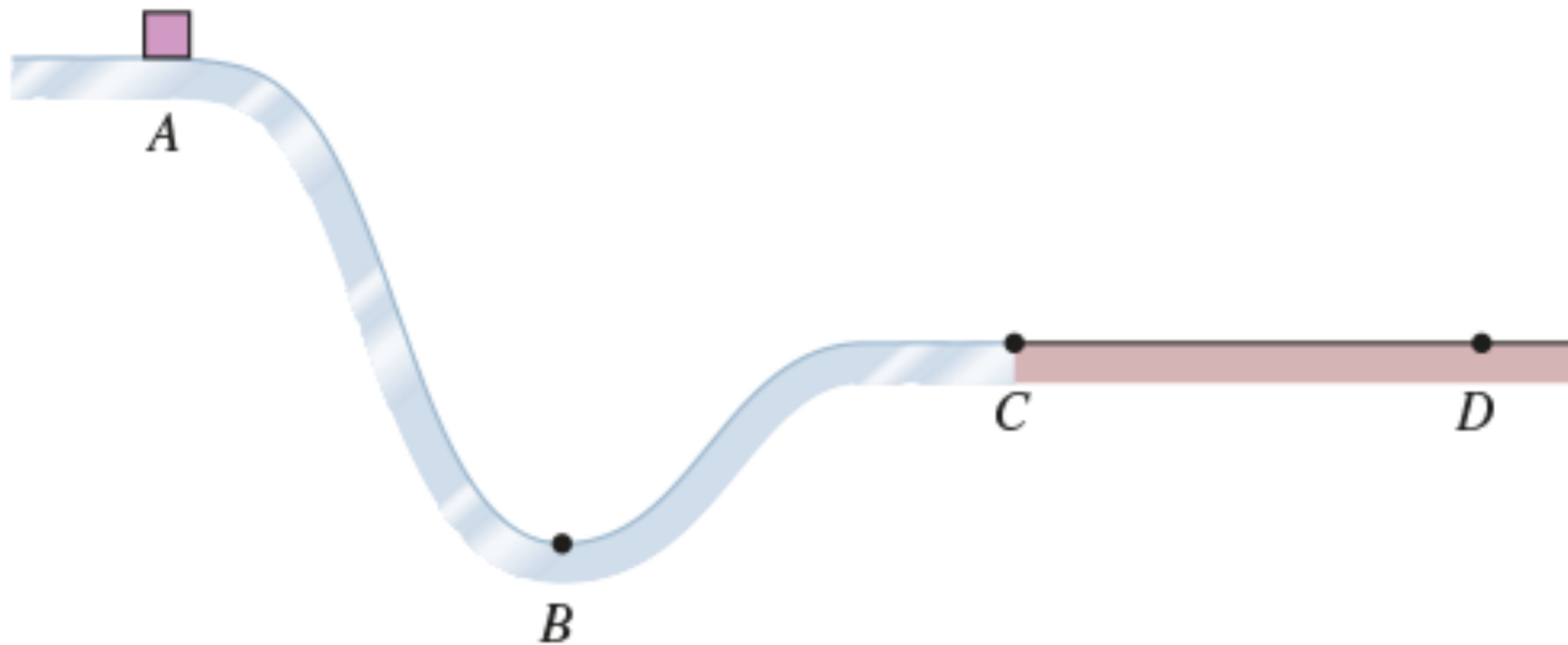


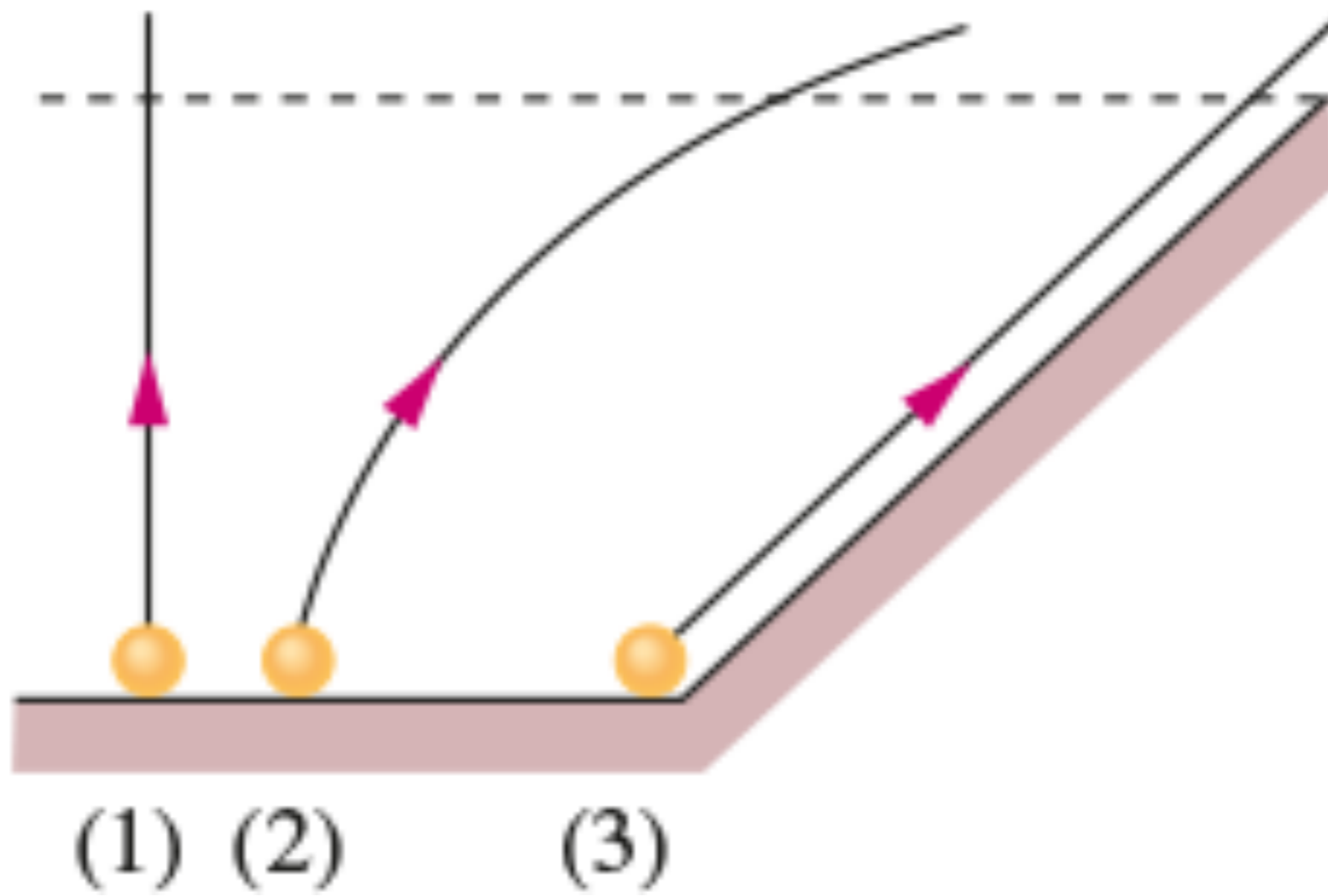


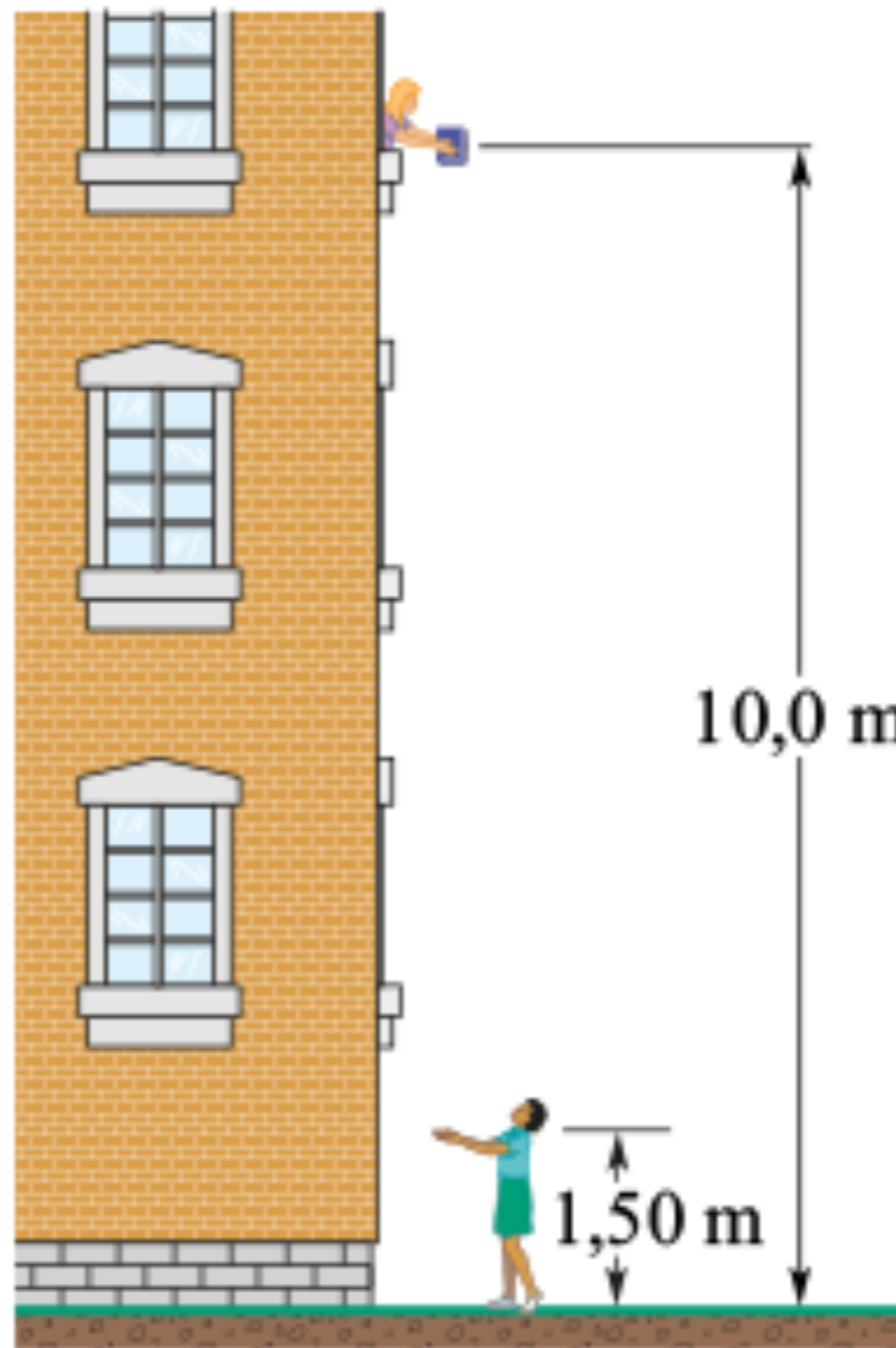




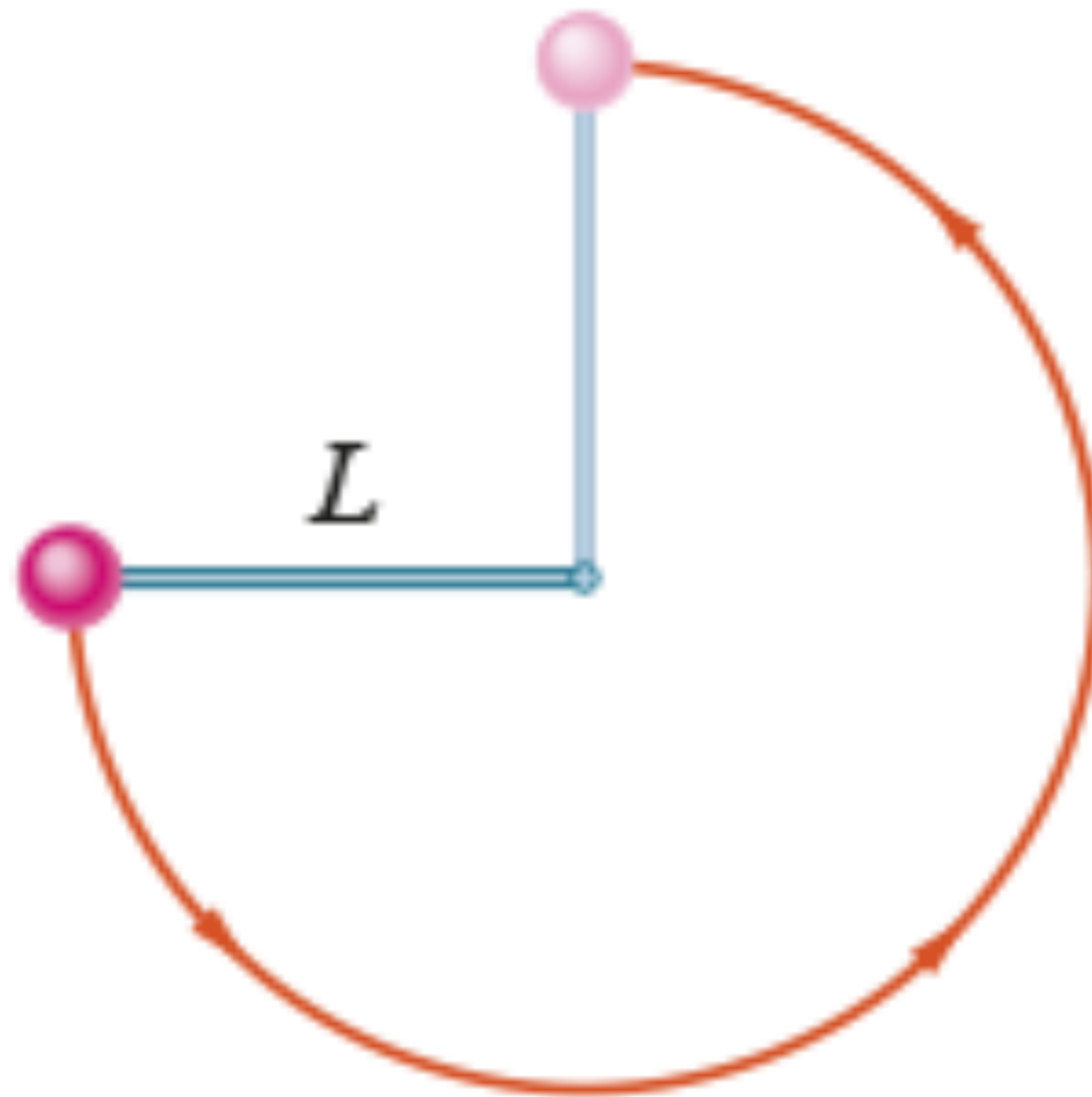


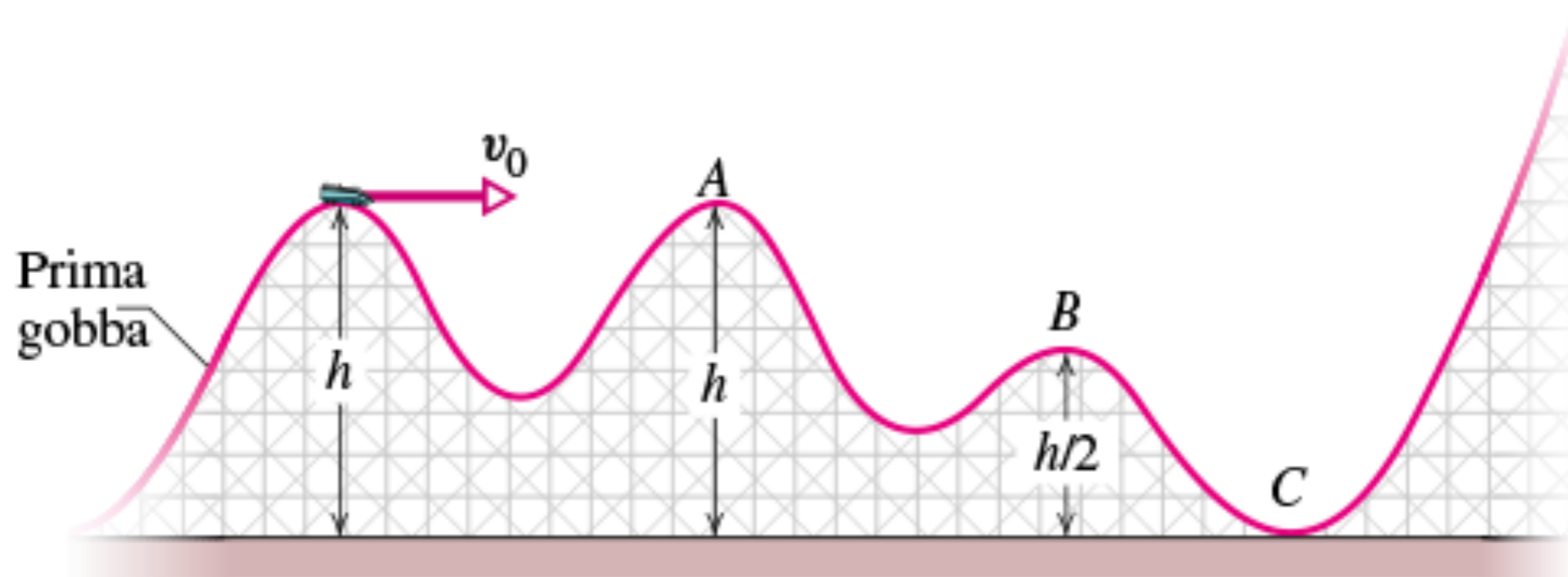


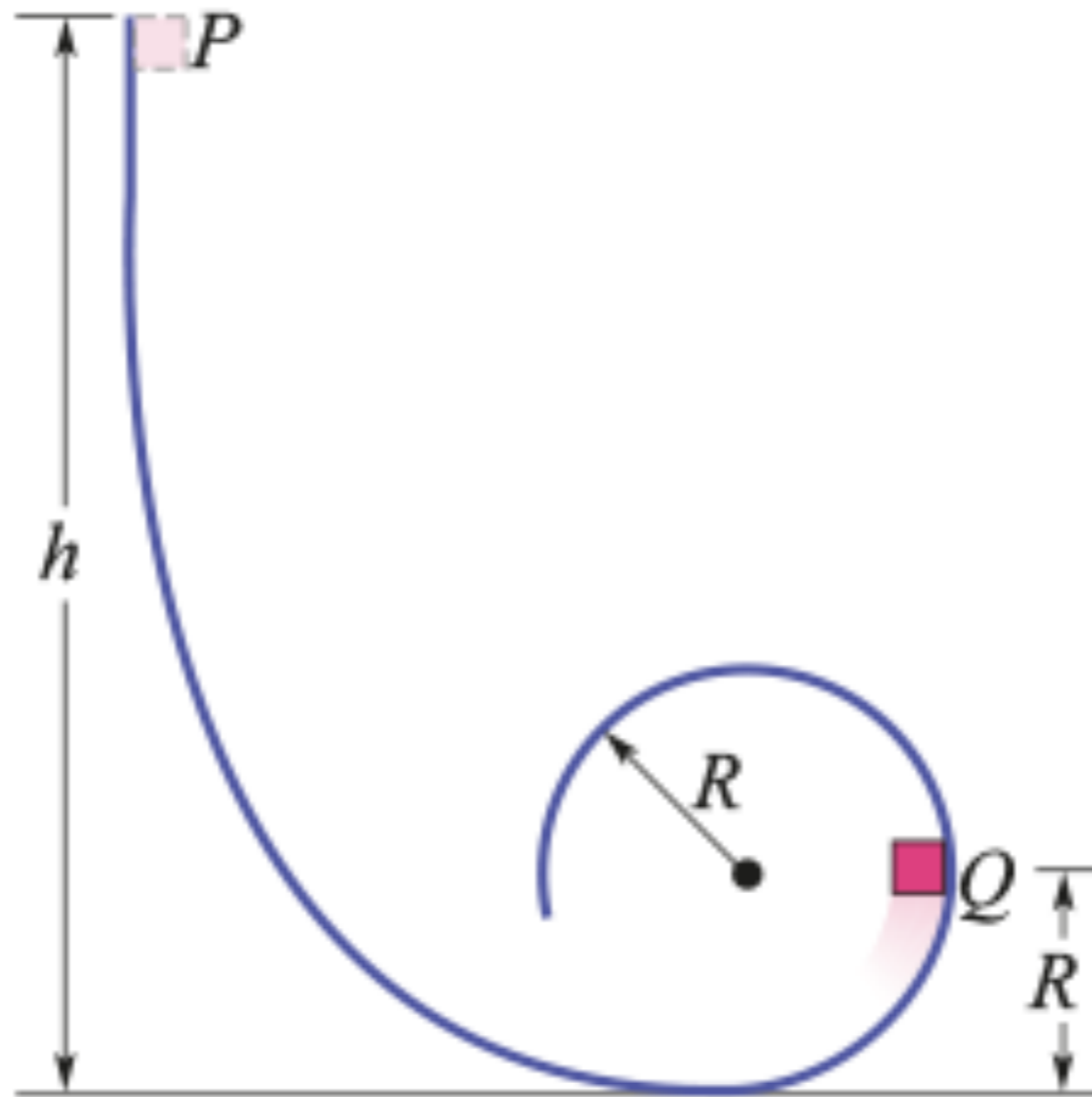


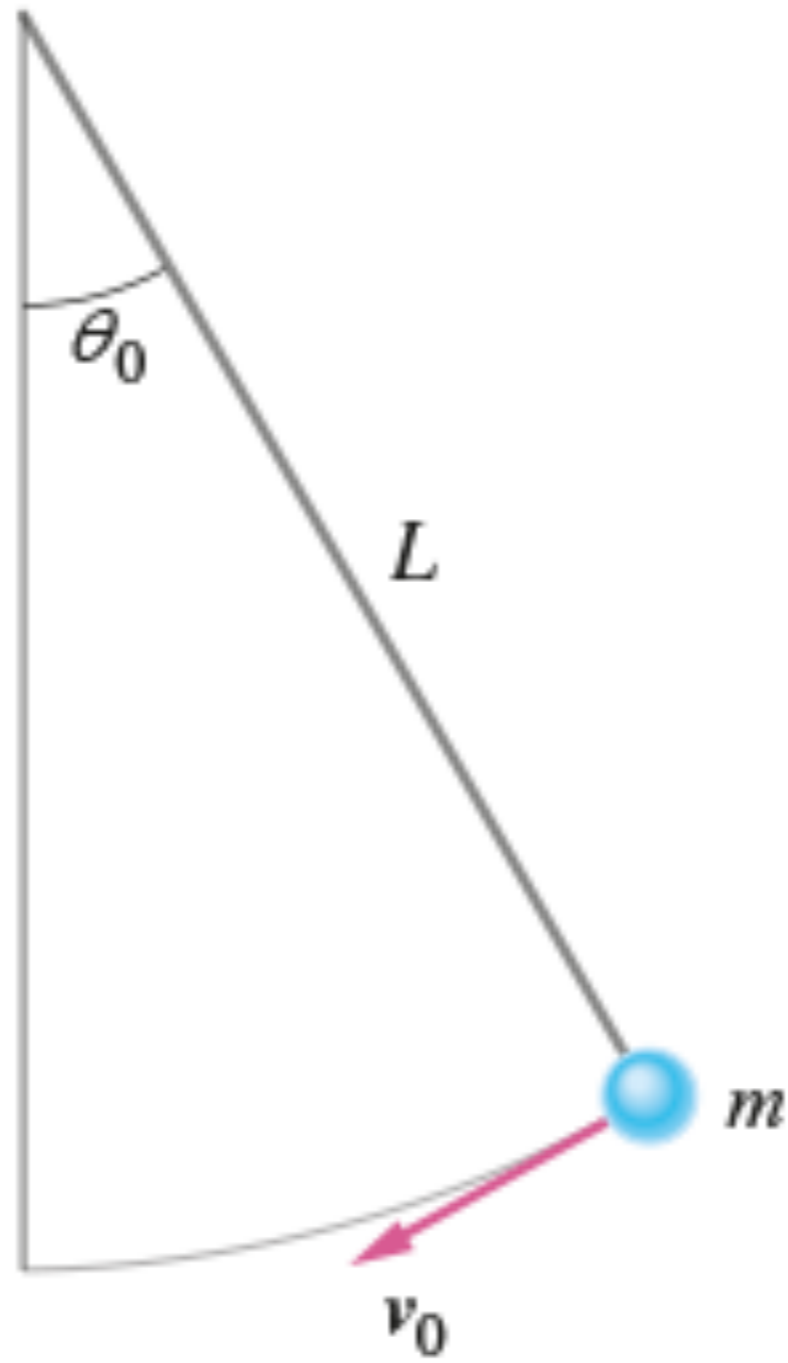


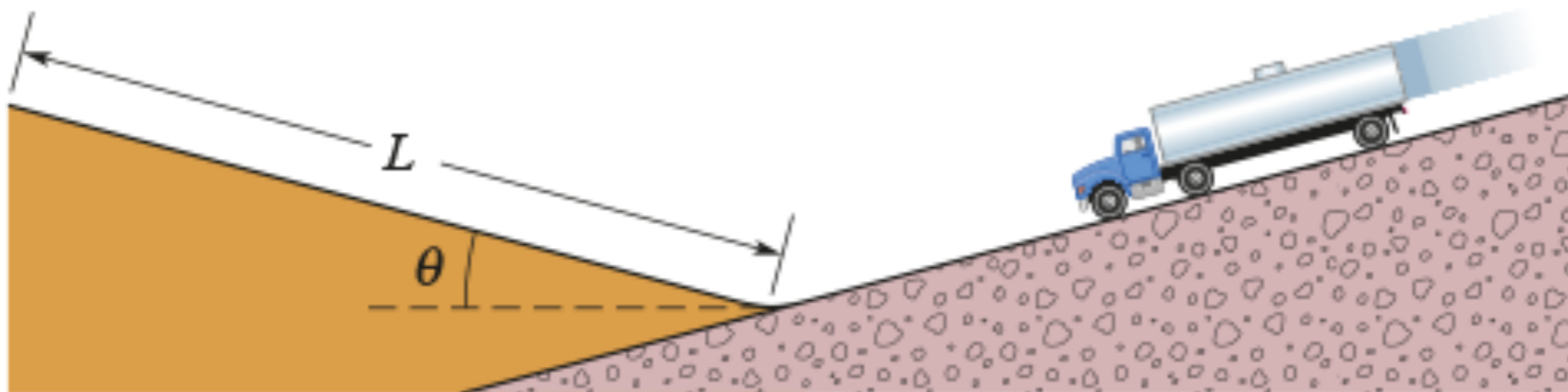


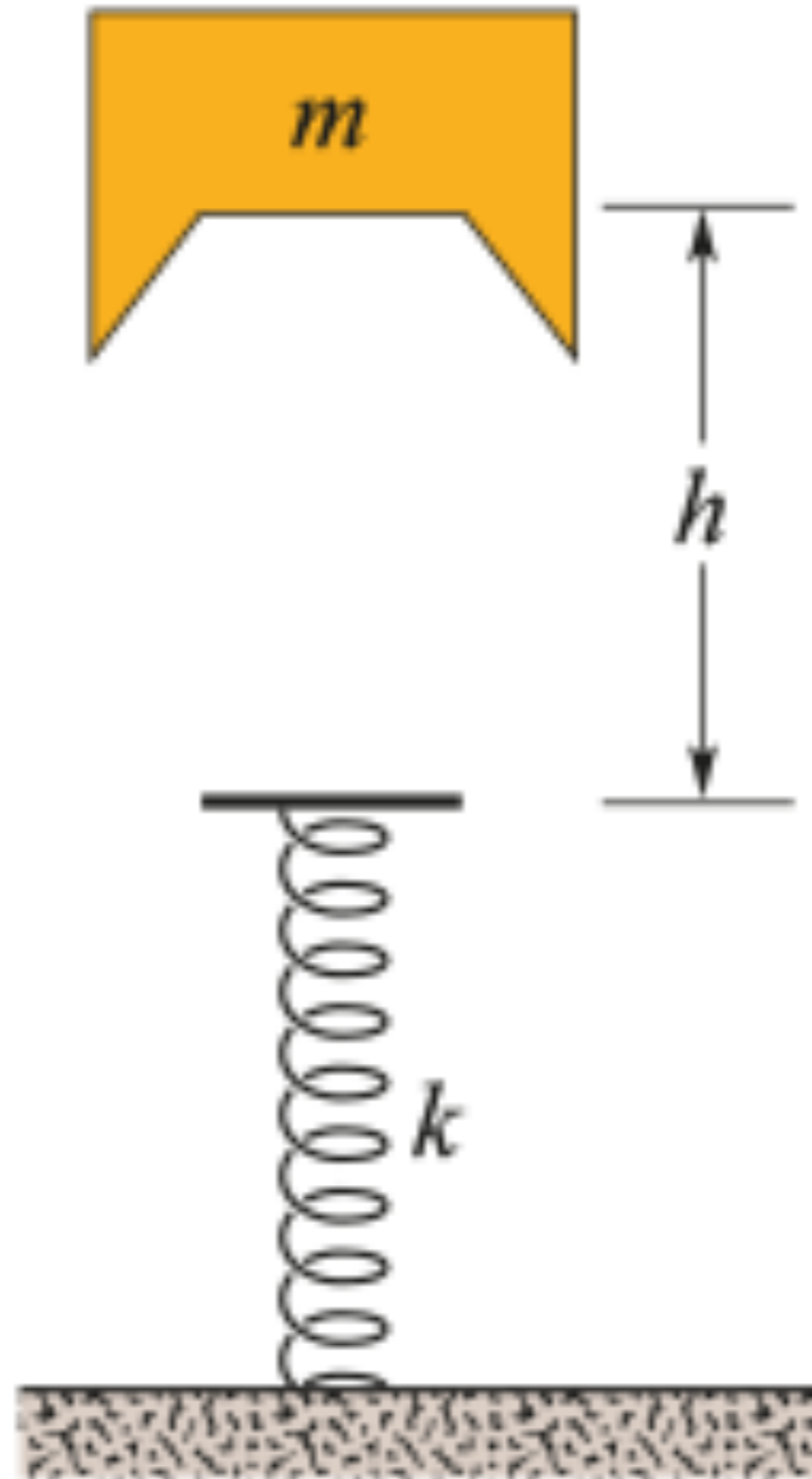


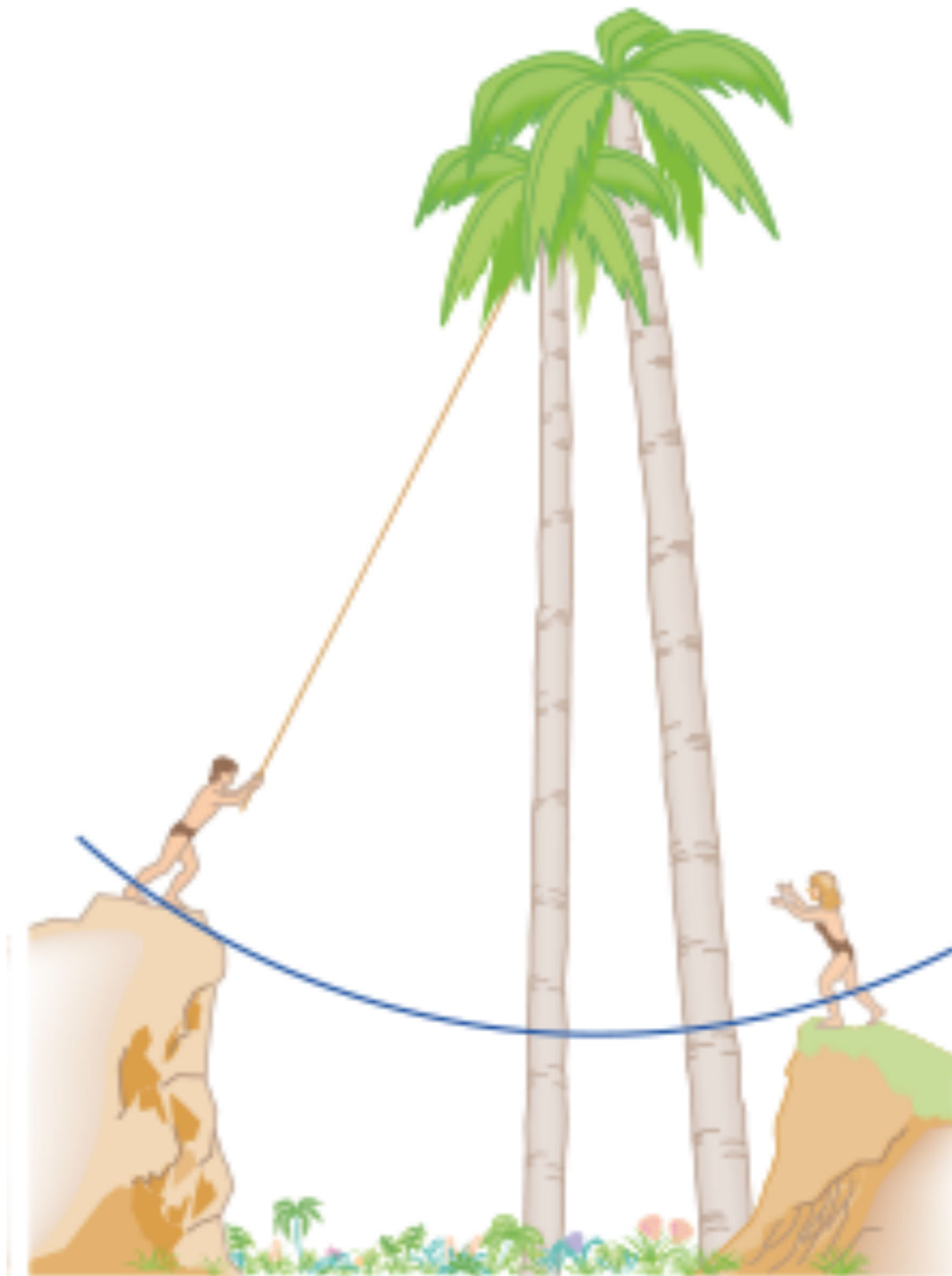


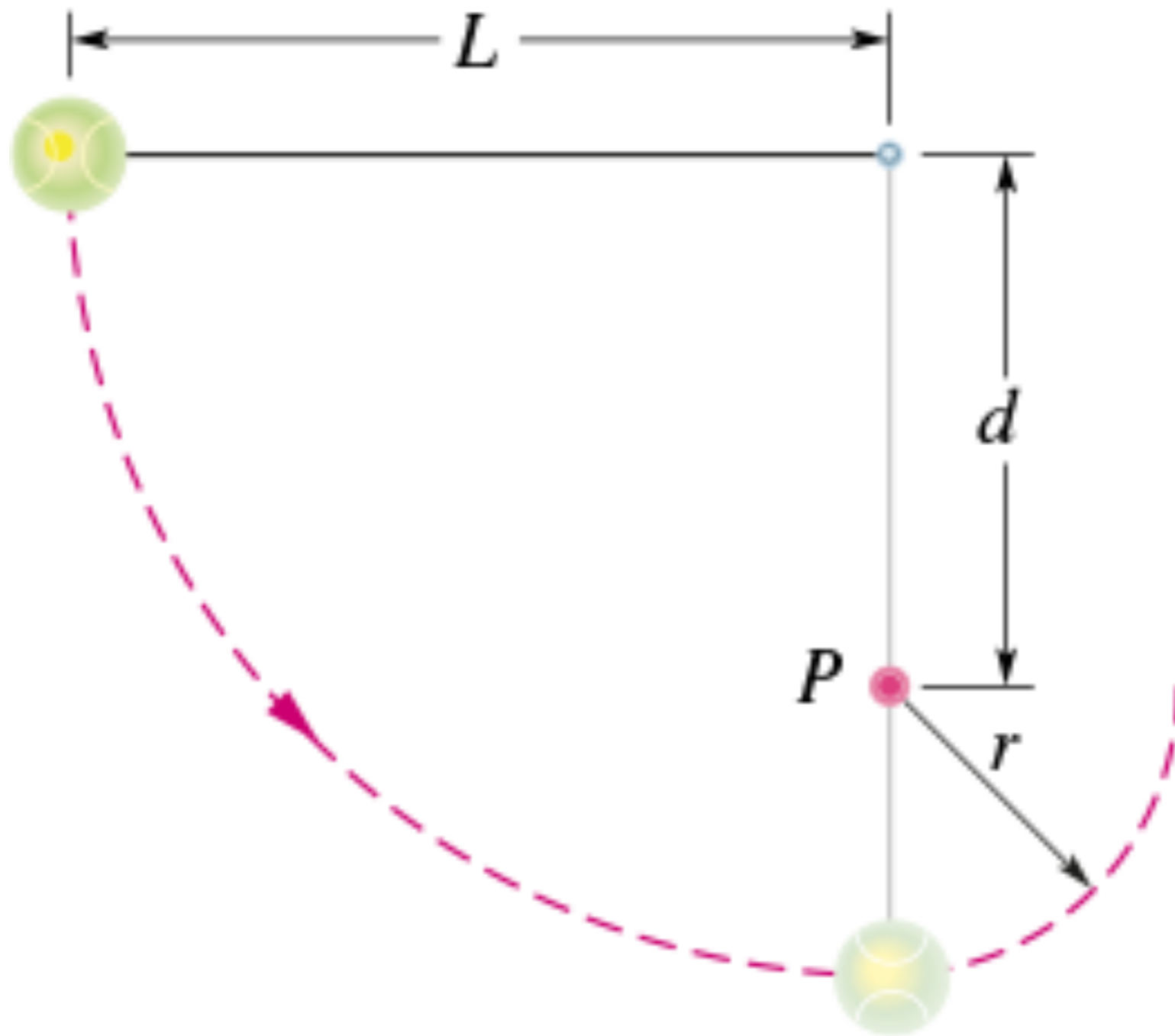


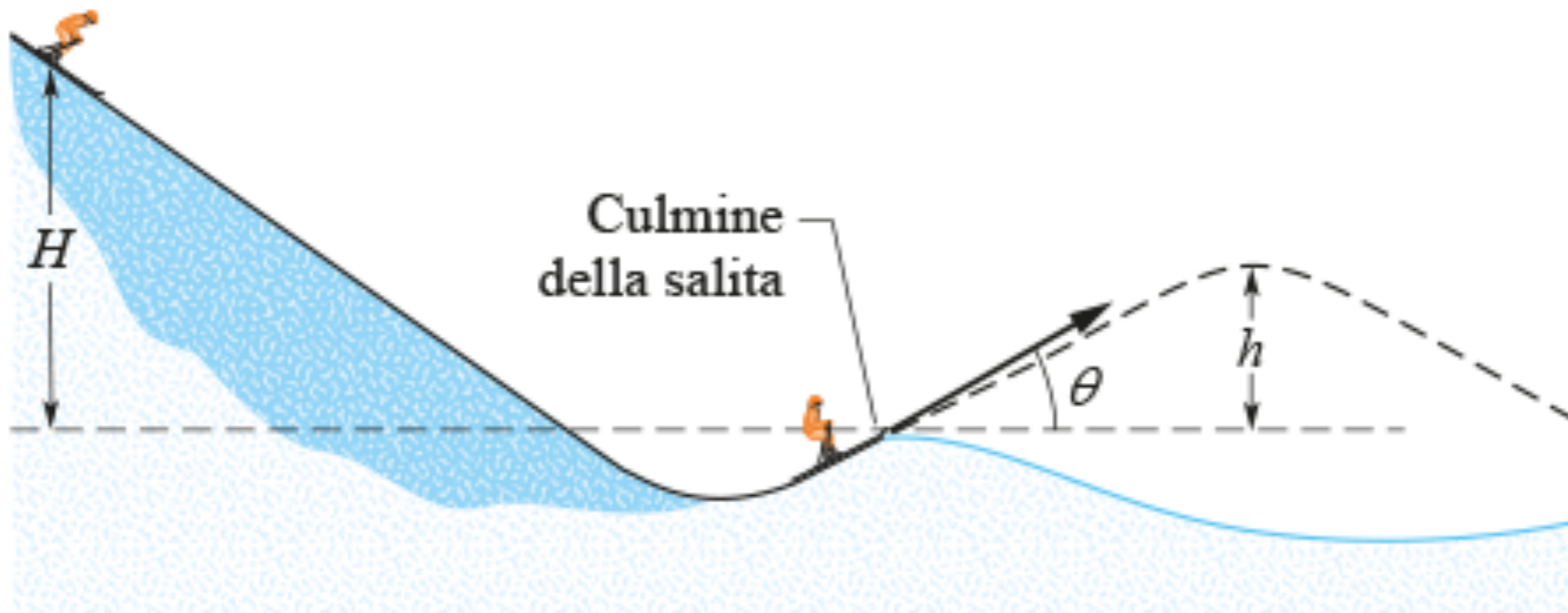


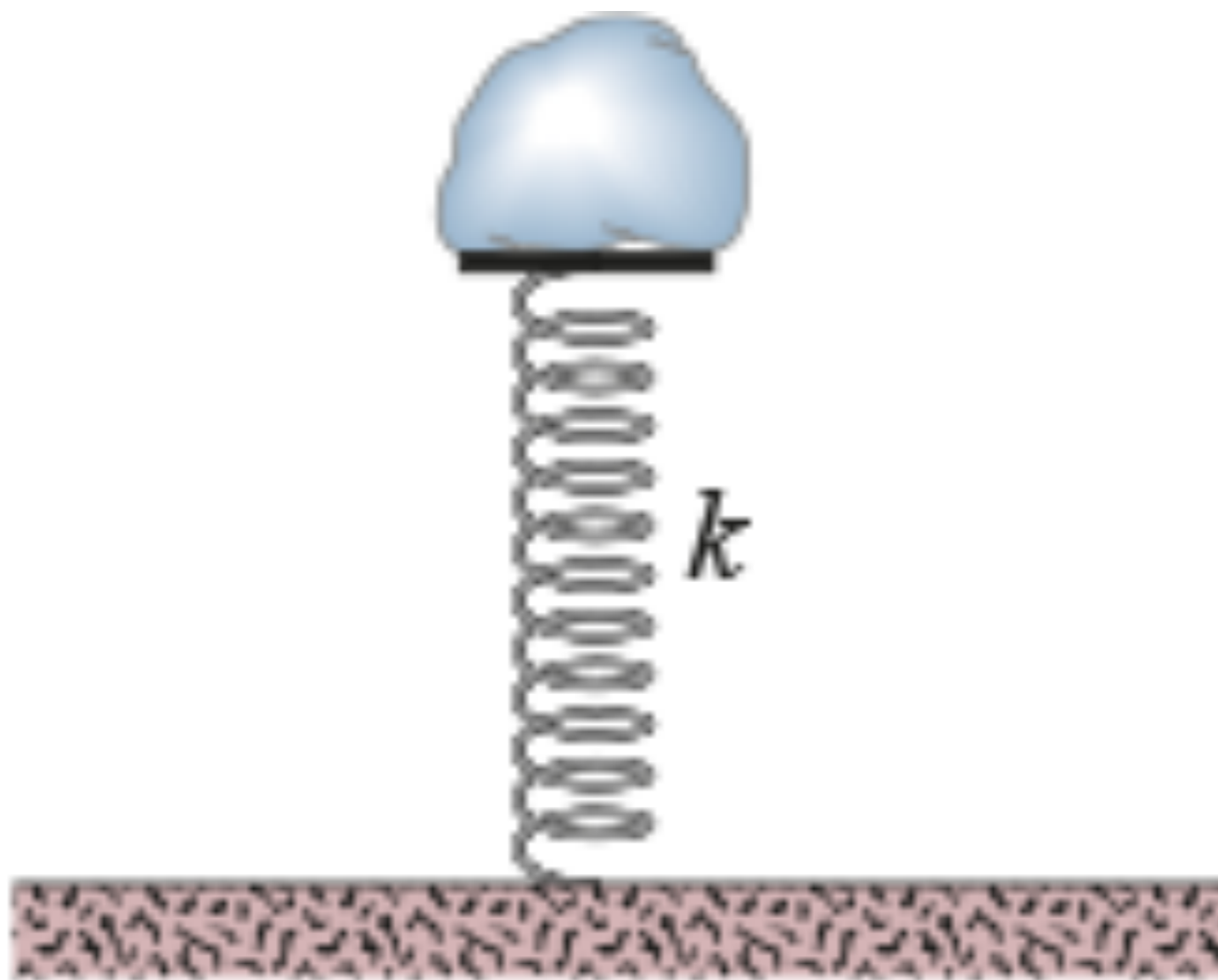


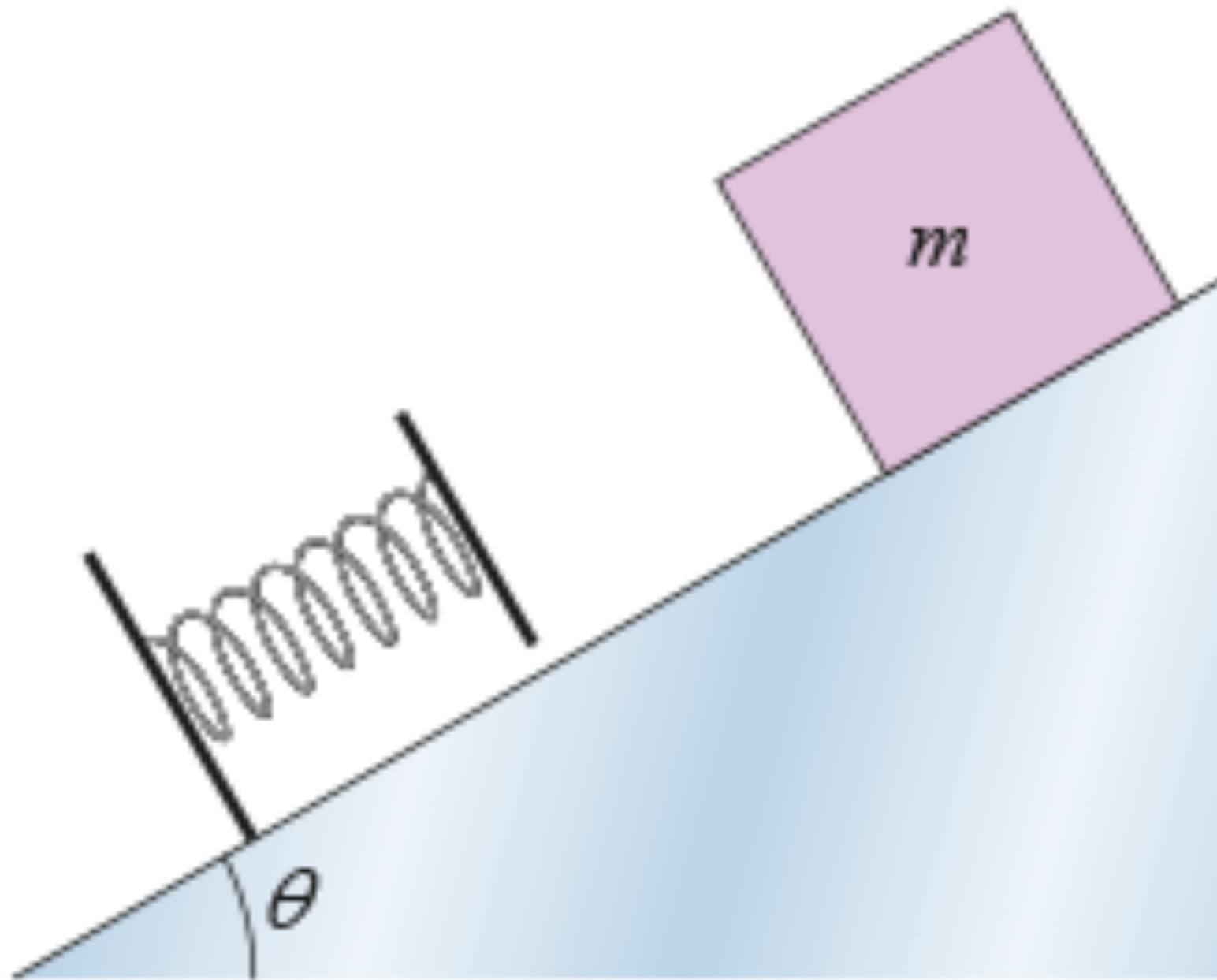


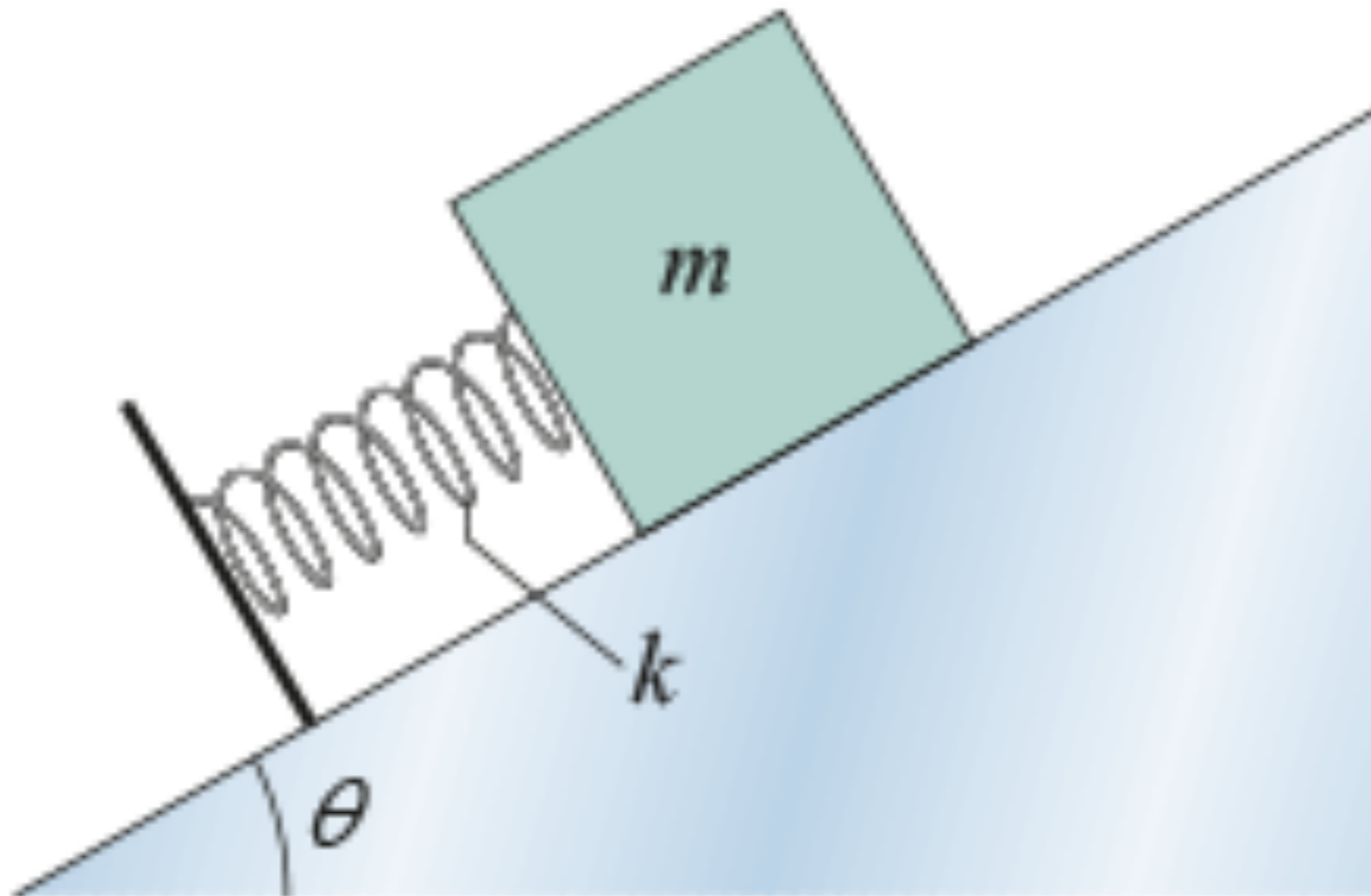


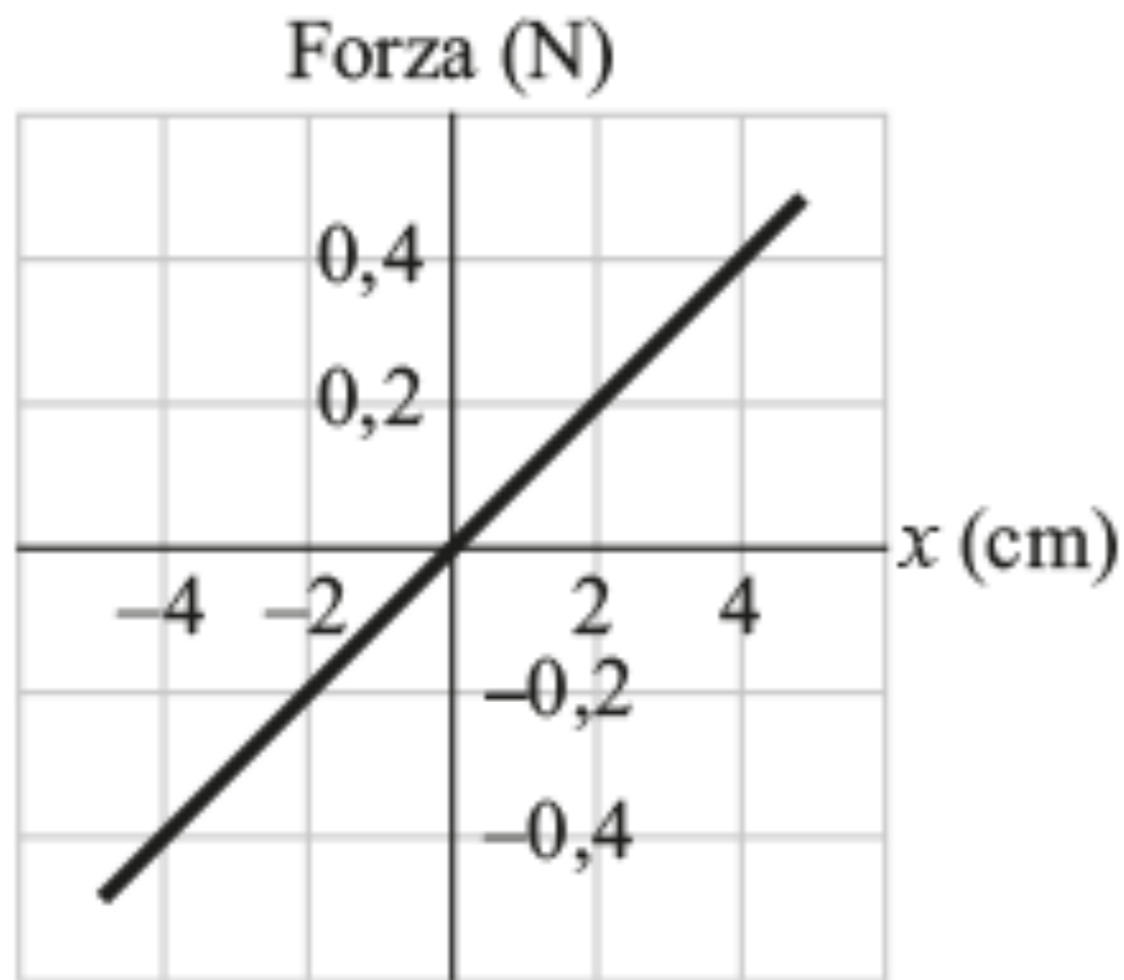




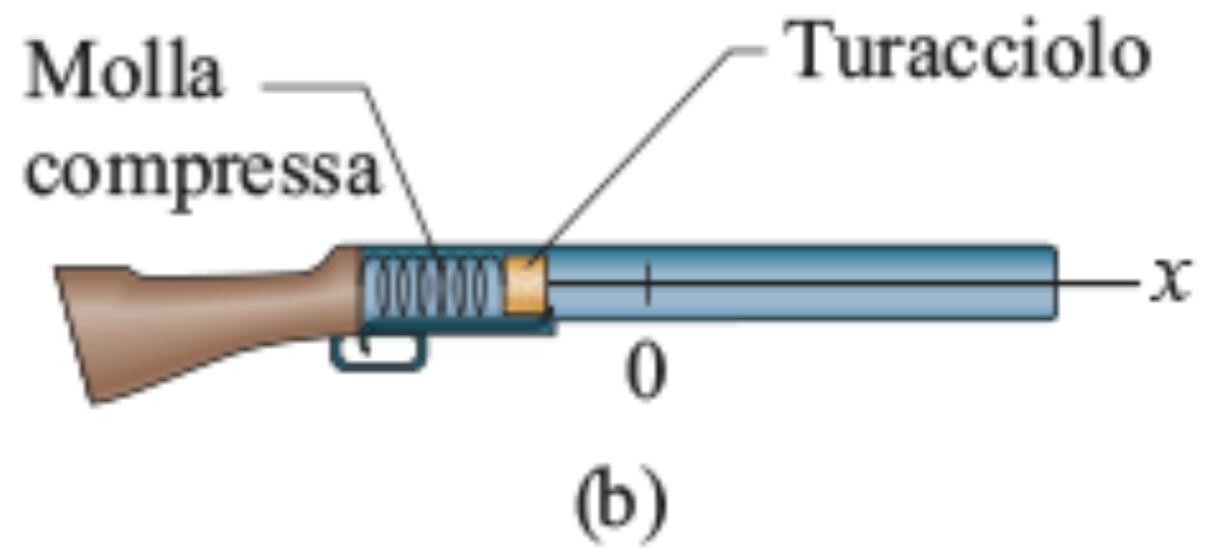








(a)



(b)

