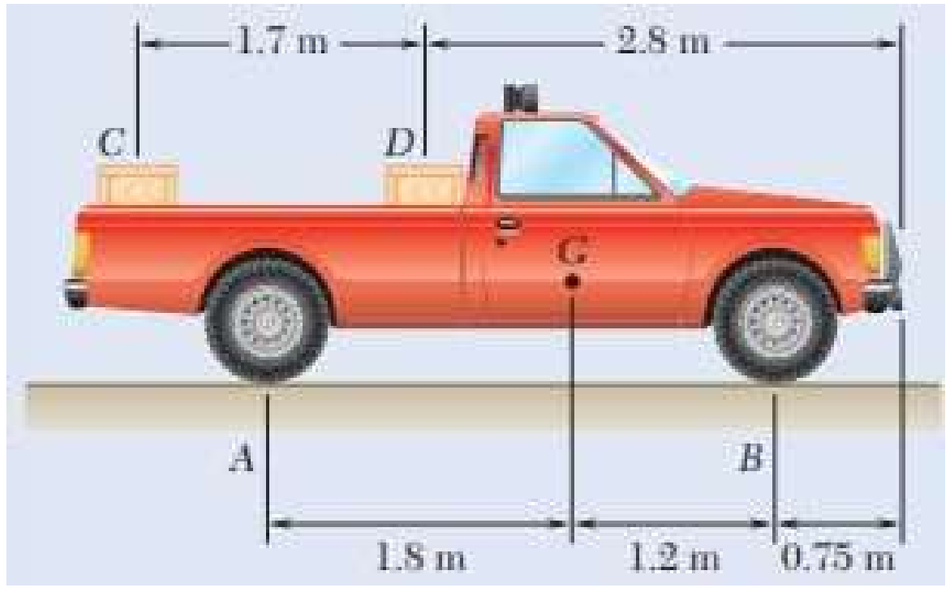
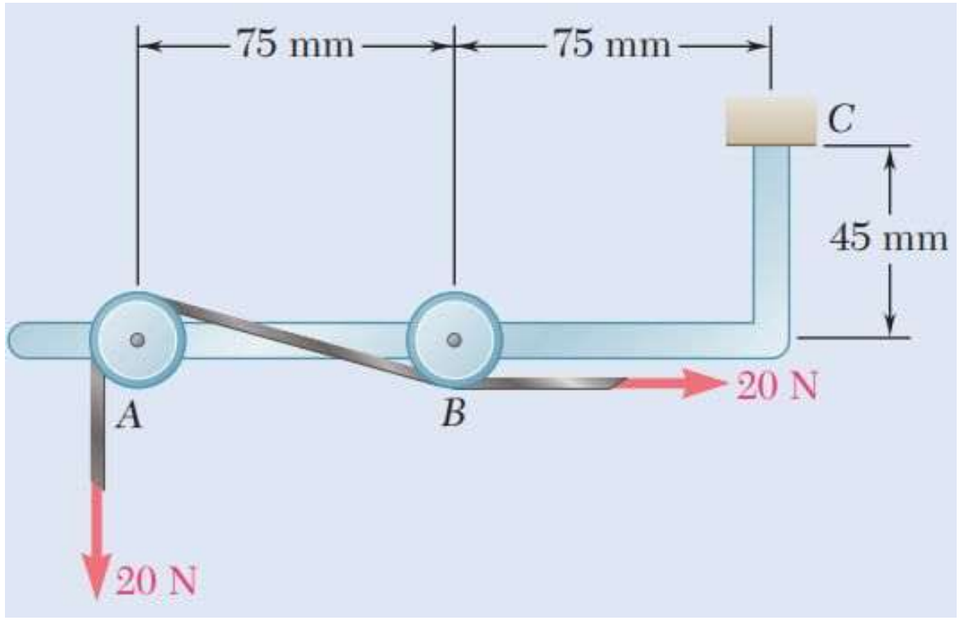
## Ejercicio 1

Two crates, each of mass 350 kg, are placed as shown in the bed of a 1400-kg pick-up truck. Draw the free-body diagram needed to determine the reactions at each of the two rear wheels $A$ and front wheels $B$.



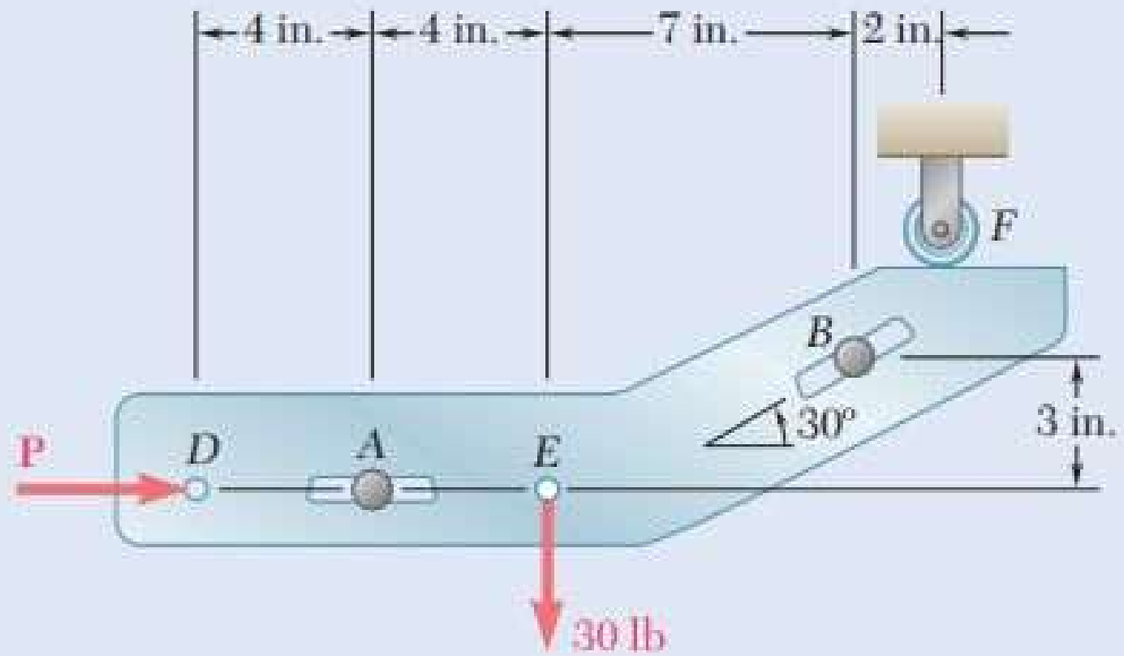
# Ejercicio 3

**4.F4** A tension of 20 N is maintained in a tape as it passes through the support system shown. Knowing that the radius of each pulley is 10 mm, draw the free-body diagram needed to determine the reaction at $C$.



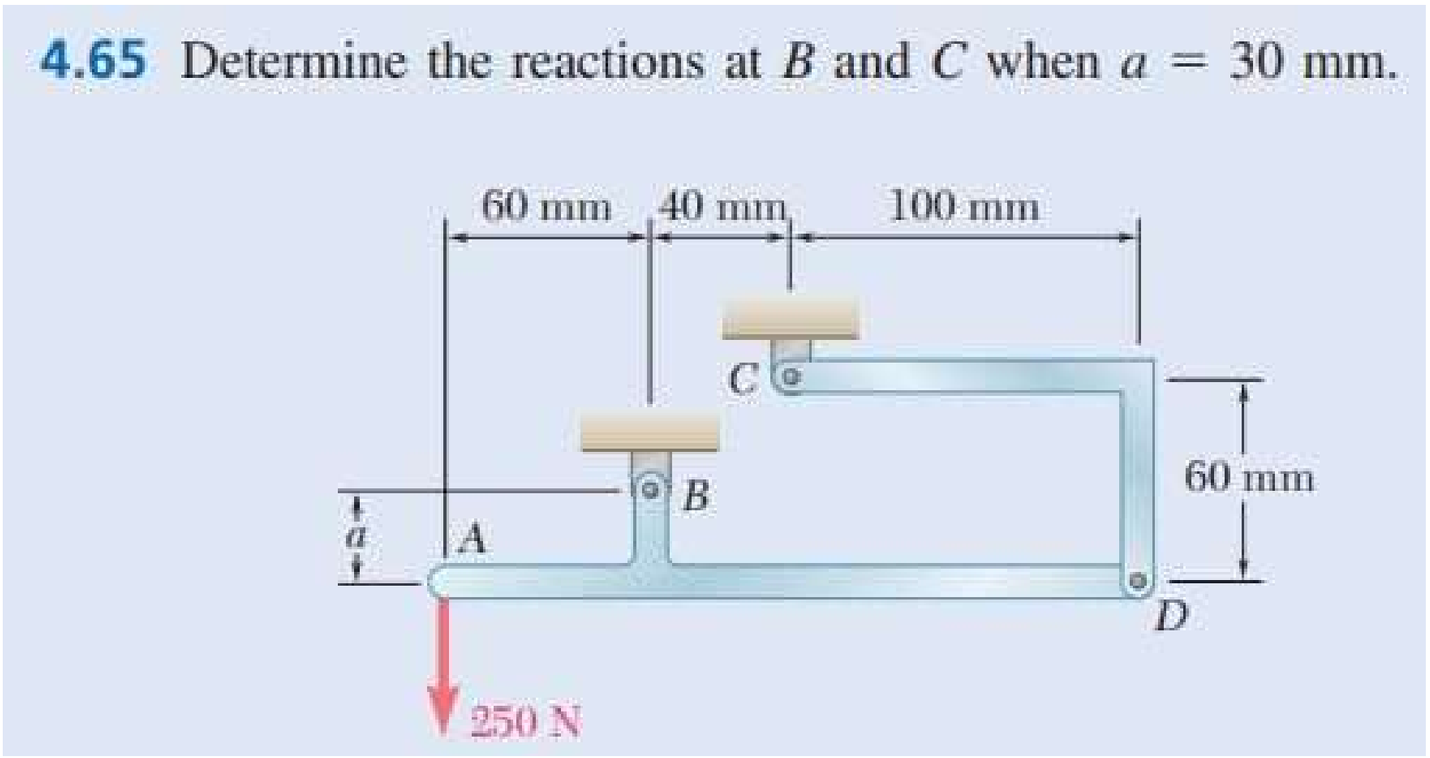
## Ejercicio 5

**4.41** Two slots have been cut in plate $DEF$, and the plate has been placed so that the slots fit two fixed, frictionless pins $A$ and $B$. Knowing that $P = 15$ lb, determine ($a$) the force each pin exerts on the plate, ($b$) the reaction at $F$.

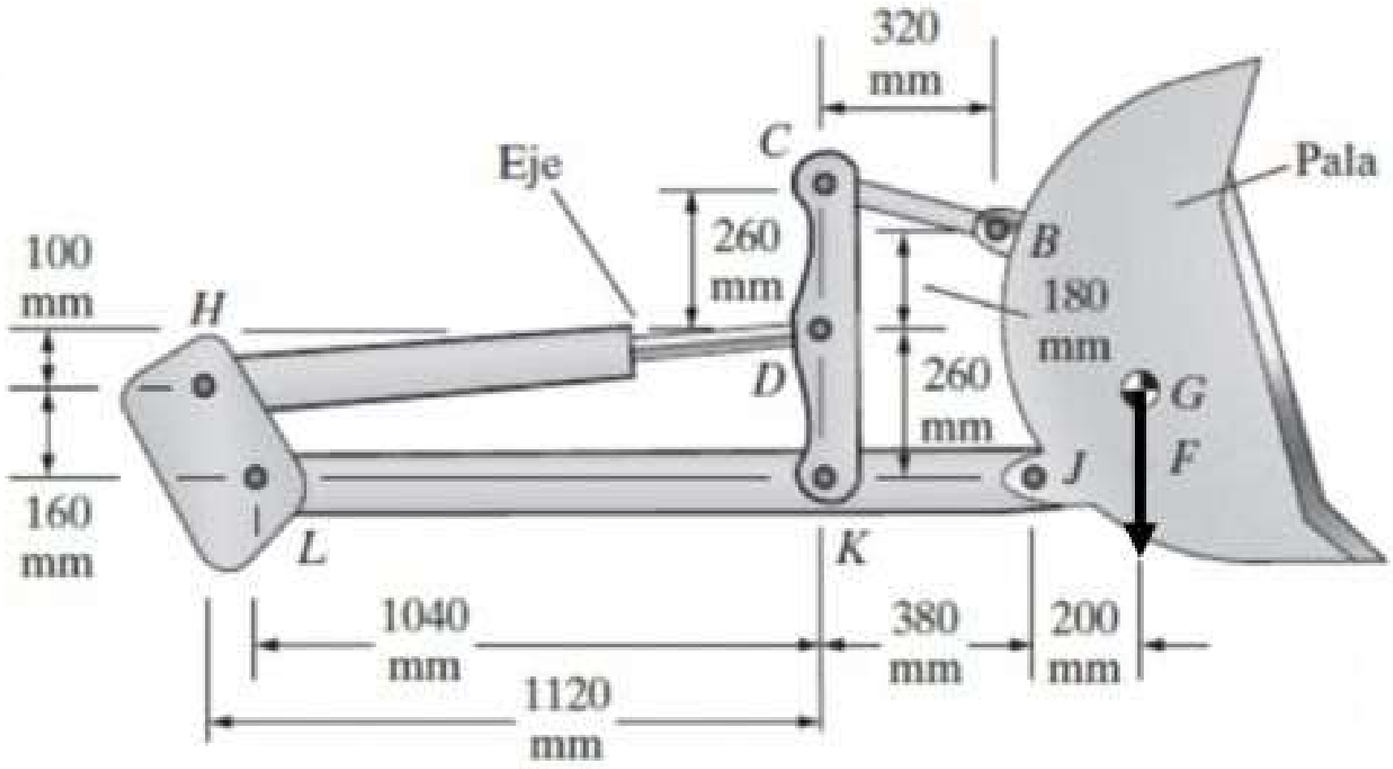


## Ejercicio 8

**4.65** Determine the reactions at $B$ and $C$ when $a = 30$ mm.



EJERCICIO 1




La pala de la figura esta diseñada para elevar cargas cuya acción se puede modelar de forma vertical descendente. Determinar la fuerza ejercida en el pistón si se aplica una fuerza F equivalente en G a 5000 N.